Norman Bird

# The Distribution of Indo-European Root Morphemes

(A Checklist for Philologists)

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OTTO HARRASSOWITZ · WIESBADEN

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## INTRODUCTION

The purpose of this study of Julius Pokorny's Indo-European Etymological Dictionary[1] is to reproduce in a handy form what Pokorny implies to be the corpus of root morphemes of Indo-European origin and to comment on these implications from a predominantly statistical point of view.

This compact checklist should enable linguists to check Pokorny's findings, correct and complete them as necessary, and so help produce a more accurate and comprehensive linguistic tool for the future.

Pokorny's dictionary is nowadays frequently dismissed as little more than a re-working of A. Walde and J. Pokorny's earlier dictionary[2] with Hittite, and some new Tocharian additions, the stage reached in linguistic scholarship half a century ago, and therefore simply out of date.

While respecting these opinions I believe that Pokorny's dictionary, and this study of it, still have an important role to play in linguistic research. The following three reasons may usefully be considered:

1. J. Pokorny's dictionary is the most recent attempt to provide a comprehensive summary on the subject, and, however dated, it is still frequently used at least as a starting point by students in the field.
2. Hitherto the contents of the dictionary have remained in German, thus creating something of a barrier for non-German-speaking students of Indo-European philology. This much shortened list in English should do something to extend the available information to a wider readership.
3. The statistical material which forms the main body of the work is new, and furthermore its presentation demonstrates a method which can usefully be applied to any new dictionary on the subject when it appears.

## THE THREE TABLES

The main body of this work consists of just three tables and these are described in detail below.

1) J. Pokorny 'Indogermanisches Etymologisches Wörterbuch' Franke (Bern and Munich) Vol I 1959, Vol II The Index compiled by H.B. Partridge 1969.

2) A. Walde 'Vergleichendes Wörterbuch der Indogermanischen Sprachen', edited and revised by J. Pokorny. 3 Vols. DeGruyter (Berlin and Leipzig) 1927-32.

TABLE ONE comprises:

1. a complete list of Indo-European root morphemes in alphabetical order,
2. an indication of their area of meanings,
3. their distribution throughout the fourteen Indo-European language groups.

This is illustrated in figure 1.

| (a) | (b) | (c) | (d) | (e) | (f) |
|---|---|---|---|---|---|
| 1296 | 23 | nēik- | to assail | x x x x 5 x x x ? 10 11 12 x x 4 | |

Figure 1. A typical entry in Table One

The meaning of the six sections in each entry is as follows:

a) e.g. 1296: the overall serial number of this entry within Pokorny's dictionary which contains 2044 relevant entries in all.

b) e.g. 23: the serial number of this entry within its alphabetical section, i.e. the example indicates that 'nēik-' is the 23rd entry with initial 'n'.

c) e.g. nēik- : the first starred headform appearing in Pokorny.

d) e.g. to assail: one of the probable meanings of the starred form.[3]

f) e.g. 1 2 3 4 5 6 7 8 9 10 11 12 13 14
5 ? 10 11 12

The Indo-European groups in which derivatives of the starred form occur.

The numbers at the head of each page in Table One indicate the fourteen groups of Indo-European origin in the order in which they occur in Pokorny, which is as follows:

| | | | |
|---|---|---|---|
| 1. | Indic | 8. | Italic (or Romance) |
| 2. | Iranian | 9. | Celtic |
| 3. | Armenian | 10. | Germanic |
| 4. | Phrygian and Dacian | 11. | Baltic |
| 5. | Greek (or Hellenic) | 12. | Slavonic (or Slavic) |
| 6. | Illyrian | 13. | Tocharian |
| 7. | Albanian | 14. | Hittite (or Anatolian) |

For the complete list of the components of each of these groups, see Pokorny II pages 493-495.

As one of the purposes of this work is to supplement Pokorny, no attempt has been made to discuss the validity of dividing the Indo-European languages into these fourteen particular groupings, e.g. the grouping of Armenian with Phrygian and Dacian under one heading

**3) As in note (c), in the interests of economy, only one meaning has been translated from the original German, and no attempt has been made to indicate the whole suggested semantic area of the original.**

'Thraco-Phrygian' or a similar inclusion of Albanian but exclusion of Venetic under 'Illyrian' as in Lockwood.[4]

Likewise no attempt has been made to list the languages in a different and perhaps more interesting or revealing order, e.g. on a purely geographical basis from West to East depending on the approximate centre of the language homeland, as follows:

| | | | |
|---|---|---|---|
| 1. | Celtic 6W | 8. | Baltic 24E |
| 2. | Germanic 10E | 9. | Slavonic 27E |
| 3. | Italic 12E | 10. | Hittite 32E |
| 4. | Illyrian 13E | 11. | Aremenian 45E |
| 5. | Albanian 20E | 12. | Iranian 52E |
| 6. | Hellenic 23E | 13. | Indic 78E |
| 7. | Phrygian and Dacian 24E | 14. | Tocharian 85E |

In figure 1, therefore, the numbers 5, 10, 11, 12, indicate that derivatives of 'nēik-' occur in Hellenic, Germanic, Baltic and Slavonic. The question mark under '9' indicates that there exists a possible but doubtful derivative to be found in Celtic, but that this has been ignored in considering the size of the set.

f) e.g. 4: the size of the set, i.e. there are four occurrences in the entry 'neik- = to assail', namely 5, 10, 11, 12.

It is self-evident that the size of a set subsumes various patterns within the set, e.g. 1,2,3,4; 2,5,8,14; 5,10,11,12 etc.

TABLE TWO contains:

1. a complete list of the sets of occurrences listed in a logical sequence according to the patterns established by their elements,
2. the number of patterns of the same kind within each set,
3. the elements constituting these patterns according to their serial numbers; see section 1 of the explanations of Table One.

If we consider once again our example: '1296-23 - nēik- = to assail', we see that it contains four items, namely 5, 10, 11 and 12 (the code numbers for Hellenic, Germanic, Baltic and Slavonic).

In Table Two this example will be found in the section 'Sets of 4 Occurrences', viz.

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | Number | Items |
|---|---|---|
| x x x x 5 x x x x 10 11 12 x x | 15 | 246, 459, 560, 657, 822, 864, 948, 956, 985, 1205, 1296, 1389, 1476, 1751, 1758 |

The maximum number of combinations (or patterns) possible with fourteen elements is 16,384.

4) W.B. Lockwood 'A Panorama of Indo-European Languages (Hutchinson) London 1972.

This is calculated by use of the standard statistical formula:

$$nCr = \frac{nPr}{r^1} .$$

This formula is demonstrated further in figure 2.

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 (14 boxes to fill) | Number of ways (patterns or sets) of filling the boxes | Total |
|---|---|---|
| With 0 (or 14) | 1 | 1 |
| With 1 (or 13) | 14 | 14 |
| With 2 (or 12) | $\frac{14 \times 13}{2 \times 1}$ | 91 |
| With 3 (or 11) | $\frac{14 \times 13 \times 12}{3 \times 2 \times 1}$ | 364 |
| With 4 (or 10) | $\frac{14 \times 13 \times 12 \times 11}{4 \times 3 \times 2 \times 1}$ | 1001 |
| With 5 (or 9) | $\frac{14 \times 13 \times 12 \times 11 \times 10}{5 \times 4 \times 3 \times 2 \times 1}$ | 2002 |
| With 6 (or 8) | $\frac{14 \times 13 \times 12 \times 11 \times 10 \times 9}{6 \times 5 \times 4 \times 3 \times 2 \times 1}$ | 3003 |
| With 7 | $\frac{14 \times 13 \times 12 \times 11 \times 10 \times 9 \times 8}{7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1}$ | 3432 |
| With 8 | | 3003 |
| With 9 | | 2002 |
| With 10 | | 1001 |
| With 11 | | 364 |
| With 12 | | 91 |
| With 13 | | 14 |
| With 14 | | 1 |
| | Grand Total | 16,384 |

Figure 2

As only 2044 items (i.e. the total number of entries in Pokorny) are under consideration in this study, the probability of the same combination (way, pattern, set) occurring twice by chance is $\frac{2044}{16,384}$ or approximately 8 to 1.

The chances of the same combination occurring 15 times by chance is obviously less than 8 to 1, in fact it is so small as to be infinitesimal. The fact that it does actually occur should, therefore, be of linguistic significance. As this study is concerned, however, with what Pokorny states, and as a consequence implies, little or no attempt has been made to interpret the findings.

In passing, however, it should be noted that, as illustrated by the following list, the largest number of patterns of the same type occur in those sets which contain on the whole the smallest number of items (or elements):

| Occurrences in the set | Pattern | Largest No. of patterns of the same type in a set |
|---|---|---|
| 14 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 1 |
| 13 | 1 2 3 x 5 6 7 8 9 10 11 12 13 14 | 4 |
| 12 | 1 2 3 x 5 x 7 8 9 10 11 12 13 14 | 9 |
| 11 | 1 2 3 x 5 x 7 8 9 10 11 12 13 x | 12 |
| 10 | 1 2 3 x 5 x 7 8 9 10 11 12 x x | 12 |
| 9 | 1 2 3 x 5 x x 8 9 10 11 12 x x | 18 |
| 8 | 1 2 x x 5 x x 8 9 10 11 12 x x | 22 |
| 7 | 1 x x x 5 x x 8 9 10 11 12 x x | 18 |
| 6 | x x x x 5 x x 8 9 10 11 12 x x | 10 |
| 5 | x x x x 5 x x x 9 10 11 12 x x | 12 |
| 4 | x x x x x x x x 9 10 11 12 x x | 20 |
| 3 | x x x x x x x x x 10 11 12 x x | 35 |
| 2 | x x x x x x x x x 10 11 x x x | 44 |
| 1 | x x x x x x x x x 10 x x x x | 14 |
| Total | 8 7 6 1 10 2 5 9 11 14 13 12 4 3 | = No. of occurrences of each language |
| Frequency | 7 8 9 14 5 13 10 6 4 1 2 3 11 12 | = Rank of each language |

The pattern which emerges from this list bears a close, but not an exact, relationship to the following series of languages in groups listed in descending order according to the number of actual entries compared with the maximum possible number of entries which as stated above is 2044.

| Serial No. or Rank | Name of Language Group and Code No. | Entries out of 2044 No. | % | Rank in the above list |
|---|---|---|---|---|
| 1 | Germanic (10) | 1377 | 67.368 | 1 |
| 2 | Hellenic (5) | 1235 | 60.420 | 5* |
| 3 | Baltic (11) | 1098 | 53.718 | 2* |
| 4 | Indic (1) | 1008 | 49.315 | 7* |
| 5 | Italic (8) | 959 | 46.918 | 6* |
| 6 | Slavonic (12) | 941 | 46.037 | 3* |
| 7 | Celtic (9) | 920 | 45.010 | 4* |
| 8 | Iranian (2) | 682 | 33.366 | 8 |
| 9 | Armenian (3) | 472 | 23.092 | 9 |
| 10 | Albanian (7) | 325 | 15.900 | 10 |
| 11 | Tocharian (13) | 260 | 12.720 | 11 |

| Serial No. or Rank | Name of Language Group and Code No. | Entries out of 2044 No. | % | Rank in the above list |
|---|---|---|---|---|
| 12 | Hittite (14) | 155 | 7.583 | 12 |
| 13 | Illyrian (6) | 116 | 5.675 | 13 |
| 14 | Phrygian and Dacian (4) | 81 | 3.963 | 14 |

Note: *indicates that the ranks in the two lists are different.

TABLE THREE is concerned exclusively with the proportional relationship of each of the fourteen language groups to each other.

This relationship is expressed in three ways as described below:

1. in terms of the actual number of times any two particular language groups co-occur in proportion to their individual total number of occurrences, e.g.1.: Indic (1) co-occurs with Iranian (2) 577 times out of a total number of 682 occurrences in Iranian.
   e.g.2.: Iranian (2) co-occurs with Indic (1) 577 times out of a total number of 1008 occurrences in Indic.
2. in terms of a rounded percentage:
   e.g.1.: Indic co-occurs with Iranian $\frac{577 \times 100}{682} = 85\%$ of the times that Iranian occurs.
   e.g.2.: Iranian co-occurs with Indic $\frac{577 \times 100}{1008} = 57\%$ of the times that Indic occurs.
3. in terms of the correlation to a universal base figure of '1' calculated to two rounded decimal places as follows:

$$\text{e.g.} \quad \frac{\frac{577 \times 1000}{1008} + \frac{577 \times 1000}{682}}{2000} = 1 : .71$$

It is hoped that these calculations will be of value within the fields of lexicostatistics and glottochronology in which hitherto there has been a tendency to base theories on a small number of basic cultural words rather than, as has been implied here, on a larger number of root morphemes.

## FINAL REMARKS AND CONCLUSIONS

As has already been stated above, the purpose of this work is neither to draw conclusions nor develop theories, but to provide a handy tool in the form of a checklist in order to simplify the work of a wide range of linguists working in different fields of research. Nevertheless it is inevitable that in compiling this piece of research on Pokorny's dictionary, certain points have arisen which are worthy of further consideration.

The largest number of entries in Pokorny's dictionary is to be found under Germanic, probably one of the most thoroughly researched groups of

the Indo-European languages. One may assume, therefore, that the figure of 1377 root morphemes of native origin approaches the total number of root morphemes in the original Indo-European language. If we assume the existence of a total number of approximately 1500 root morphemes in Indo-European, then Pokorny's figure of 2044 is approximately 544 too large. The question then arises as to which root morphemes, if any, are either of non-Indo-European origin or have been included in the dictionary under two or more distinct entries, when they could in fact have been grouped under a single entry. The following table gives a clue, but by no means a conclusive one, as to which these might be.

| Number of Occurrences per Set | | Total Number of Occurrences of the Set | | Total Number of Items Occurring in Sets of this Type | Total Cumulative Number of Occurrences |
|---|---|---|---|---|---|
| 14 | x | 1 | = | 14 | 1 |
| 13 | x | 8 | = | 104 | 9 |
| 12 | x | 28 | = | 336 | 37 |
| 11 | x | 36 | = | 396 | 73 |
| 10 | x | 76 | = | 760 | 149 |
| 9 | x | 85 | = | 765 | 234 |
| 8 | x | 112 | = | 896 | 346 |
| 7 | x | 146 | = | 1022 | 492 |
| 6 | x | 151 | = | 906 | 643 |
| 5 | x | 221 | = | 1105 | 864 |
| 4 | x | 297 | = | 1188 | 1161 |
| 3 | x | 407 | = | 1221 | 1568 |
| 2 | x | 440 | = | 880 | 2008 |
| 1 | x | 36 | = | 36 | 2044 |
| Total Number of Entries | | | = | 9629 | |

It seems reasonable to suppose that the more elements that a set contains, then the more likely it is to be a true Indo-European root morpheme, and vice versa. This brings those sets of 1, 2 and even some of those containing 3 elements into considerable doubt as to their validity. Pokorny himself indicates his doubts on several occasions by means of cross references, and thus points the way to further research towards the discovery of the true repertoire of Indo-European root morphemes. Furthermore it is also self-evident that, if those sets which contain only a small number of elements are either eliminated as non-Indo-European or are included in other larger sets, then Tables One and Two in this work will have to be revised, and the calculations in Table Three must undergo radical change. It is for this reason that

more advanced calculations have not been included, e.g. the proportional relationship of pairs of language groups to a third language group etc. This work, interesting in itself, gains significance only after the establishment of a generally accepted list of root morphemes.

The definitive dictionary on the subject has yet to be produced, and in view of the area of ignorance in the field which still exists, one can but hope that, when finally concluded, it will, unlike Pokorny's work, contain:

1. no variations in the starred headforms,
2. no doubts as to whether a particular entry constitutes a root morpheme in its own right or whether it should be entered as a subsection of another starred headform.

If this study can be of value, however small, to linguists already working in the field, and if it stimulates others into looking more deeply into the question of what constituted the language, life and culture of the ancestors of a very large proportion of the world's population, the author will feel that his efforts have been amply rewarded.

# T A B L E  O N E

## The Indo-European Roots and Their Distribution

## Ă - Ăi - Ău

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-1 | ā (exclamation) | 1 | | | | 5 | | | 8 | | 10 | 11 | | | | 5 |
| 2-2 | ab- water + 89 | | | | | | 6 | | 8 | 9 | 10 | 11 | | | | 5 |
| 3-3 | ăbel- apple | | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 5 |
| 4-4 | abh- swift + 5 | ? | | | | 5 | | | | | | | 12 | | | 2 |
| 5-5 | abhro- strong + 5 | | | | 4 | | 6 | | | 9 | 10 | | | | | 4 |
| x | abō(n) monkey (new form) | | | | | | | | | | | | | | | |
| 6-6 | 1. ad- to, by, at + 7 | 1 | | | 4 | | | | 8 | 9 | 10 | | | | | 5 |
| 7-7 | 2. ad- to fix + 6 | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 8-8 | ades- type of grain | | | | | | | | 8 | | 10 | | | 13 | | 3 |
| 9-9 | ad(u) water course | | 2 | | | | 6 | | | | | 11 | | | | 3 |
| 10-10 | aĝ- to drive | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 11-11 | ăĝ- he-goat + 28 | 1 | 2 | | | | | 7 | | | | 11 | 12 | | | 5 |
| 12-12 | aĝh- pregnant animal | 1 | 2 | 3 | | | | | | 9 | | | | | | 4 |
| 13-13 | ăĝher- day | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| 14-14 | agh- to be depressed + 15 | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 15-15 | agh-(lo)- unpleasant + 14 | ? | | | | | | | | ? | 10 | | | | | 1 |
| 16-16 | aghl(u) dark cloud | | | 3 | | 5 | | | | | | 11 | | | | 3 |
| 17-17 | agos- blemish | 1 | | | | 5 | | | | | 10 | | | | | 3 |
| 18-18 | agro- tip | 1 | 2 | | | | | | ? | | | 11 | | | ? | 3 |
| x | agro-s + 10 | | | | | | | | | | | | | | | |
| 19-19 | agu̯(e)si axe | | | | | 5 | | | 8 | | 10 | | | | | 3 |
| 20-20 | ag$^{u}_{\smile}$h-no-s lamb | | | | | 5 | | | 8 | 9 | 10 | | 12 | | | 5 |
| 21-21 | 1. ai (exclamation) + 35 | 1 | 2 | | | 5 | | | | | | 11 | | | | 4 |
| 22-22 | 2. ai- to close in | 1 | 2 | | | 5 | | | | ? | | | | | | 3 |
| 23-23 | 3. ai- to give | | 2 | | | 5 | 6 | | 8 | 9 | | | | 13 | 14 | 7 |
| 24-24 | 4. ăi- to burn + 26, 27, 36, 40, 41 | | | | | ? | | | | | 10 | | | | | 1 |
| 25-25 | 5. ai- significant talk? | | | | | 5 | | | | 9 | ? | | | | | 2 |
| x | aid- to swell + 1328 | | | | | | | | | | | | | | | |
| 26-26 | ai-dh- to burn + 24 etc | 1 | 2 | | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 27-27 | ăi̯er- day(light) + 24 | | 2 | | | 5 | | | | | 10 | | | | | 3 |
| 28-28 | aiĝ- goat + 11 | | 2 | 3 | | 5 | | | | | | | | | | 3 |
| 29-29 | 1. aig- out of humour | | | | | | | 7 | 8 | | 10 | 11 | 12 | 13 | | 6 |
| 30-30 | 2. aig- oak | | | | | 5 | | | ? | | 10 | | | | | 2 |
| 31-31 | 3. aig- to move violently | 1 | | | | 5 | | | | | 10 | | 12 | | | 4 |
| 32-32 | aig$^{u}_{\smile}$h- to be ashamed | | | | | 5 | | | | | 10 | | | | | 2 |
| 33-33 | ā(i)ĝh- to need | 1 | 2 | | | 5 | | | | | | | | 13 | | 4 |
| 34-34 | ăiḱ- spear | | 2 | | | 5 | | | 8 | | ? | 11 | 12 | | | 5 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35-35 | aik- to call to? + 21 | | | | | 5 | | | | | | 11 | | | | 2 |
| 36-36 | aios- metal + 24 | 1 | 2 | | | | | | 8 | | 10 | | | | | 4 |
| 37-37 | ai-rā type of grass | 1 | | | | 5 | | | | | | 11 | | | | 3 |
| 38-38 | 1. ais- to wish | 1 | 2 | 3 | | | | | 8 | | 10 | 11 | 12 | | | 7 |
| 39-39 | 2. ais- to respect | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 40-40 | aisk- clear, bright + 24 | | | | | | ? | | | ? | 10 | 11 | 12 | | | 3 |
| 41-41 | ai-tro- bitter? + 24 | | | | | | | | | | | 11 | 12 | | | 2 |
| 42-42 | aiu- life force | 1 | 2 | | | 5 | | 7 | 8 | | 10 | | | 13 | | 7 |
| 43-43 | 1. ak- to eat | 1 | 2 | | | 5 | | | | | 10 | | | | | 4 |
| 44-44 | 2. ak- sharp + 1330, 1331 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 45-45 | akkā mummy | 1 | | | | 5 | | | 8 | | | | | | | 3 |
| 46-46 | akru tear + 299 | 1 | 2 | | | | | | | | | 11 | | 13 | | 4 |
| 47-47 | aku- to damage? | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 48-48 | akuā- water | ? | | | | | 6 | | 8 | ? | 10 | | 12 | 13 | 14 | 6 |
| 49-49 | 1. al- beyond + 108 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | 12 | 13 | | 9 |
| 50-50 | 2. al- to grow, make | 1 | 2 | | ? | 5 | | | 8 | 9 | 10 | | | 13 | | 7 |
| 51-51 | 3. āl- to wander about | | | | | 5 | | | 8 | | | 11 | | 13 | | 4 |
| 52-52 | 4. al- to burn | 1 | | | | ? | | | 8 | ? | 10 | | | | | 3 |
| 53-53 | 5. al- to grind | 1 | 2 | 3 | | 5 | | | | | | | | | | 4 |
| x | 6. al- + 56 | | | | | | | | | | | | | | | |
| 54-54 | alā hello + 445, 1045 | 1 | | | | 5 | | | | | | 11 | 12 | | | 4 |
| 55-55 | albhi- barley + 56 | | ? | | | 5 | | 7 | | | | | | | | 2 |
| 56-56 | albho- white + 55, 445, 447, 1922 | | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | ? | 7 |
| 57-57 | aldh- trough | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 58-58 | aleq- to ward off + 104 106 | 1 | | 3 | | 5 | | | | | 10 | 11 | | 13 | | 6 |
| 59-59 | algh- frost | | | | | | | | 8 | | 10 | | | | | 2 |
| 60-60 | alguh- to gain, earn | 1 | 2 | | | 5 | | | | | | 11 | | | | 4 |
| 61-61 | alp- small, weak? | 1 | | | | ? | | ? | | | | ? | | | | 1 |
| 62-62 | ālu- bitter plant? | 1 | | | | 5 | | | 8 | | | | | | | 3 |
| 63-63 | alu- bitter, beer | | | | | 5 | | | 8 | | 10 | | | | | 3 |
| 64-64 | ambhi around, both +423, 473 (= 72+232?) | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 65-65 | 1. am- to seize + 1164 | 1 | | 3 | | | | | ? | | | | | | | 2 |
| x | 2. am- + 1165 | | | | | | | | | | | | | | | |
| 66-66 | āmer- day | | | 3 | | 5 | | | | | | | | | | 2 |
| 67-67 | ames- blackbird | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| x | amə + 1336 | | | | | | | | | | | | | | | |
| 68-68 | am(m)a mummy | | | | | ? | | 7 | 8 | | 10 | | | 13 | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 69-69 | 1. an- relatives (both male and female) | | | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | | | 14 | 8 |
| 70-70 | 2. an- other(side), there | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 71-71 | 3. an(ə)- to breathe + 85, 87 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | 12 | 13 | | 10 |
| 72-72 | 4. an over there, along | 1 | 2 | 3 | | 5 | | | 8 | ? | 10 | 11 | 12 | | | 8 |
| 73-73 | andh- to sprout | 1 | 2 | 3 | | 5 | | 7 | | 9 | 10 | ? | | 13 | | 8 |
| 74-74 | andho blind, dark | 1 | 2 | | | | | | | 9 | | | | | | 3 |
| 75-75 | anət- duck + 506 | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 76-76 | anəta doorpost | 1 | 2 | 3 | | | | | 8 | | 10 | | | | | 5 |
| 77-77 | anĝh- narrow + 134, 2028 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | ? | | 9 |
| 78-78 | anĝhen- scent, smell | | | 3 | | | | | | | 10 | | | | | 2 |
| 79-79 | angᵘ̯(h)i snake + 431 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 80-80 | 1. ank- force + 1297 | | | | | 5 | | | | 9 | ? | | | | ? | 2 |
| 81-81 | 2. ank- to bend | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 82-82 | ānо- ring | | | 3 | | | | | 8 | 9 | | | | | | 3 |
| 83-83 | ans- well inclined | | | | | 5 | | | | | 10 | | | | | 2 |
| 84-84 | ansā noose, bow | | | | | 5 | | | 8 | 9 | 10 | 11 | | | | 5 |
| 85-85 | ansu- spirit, demon + 71 | 1 | 2 | | | | 6 | | 8 | | 10 | | | | | 5 |
| 86-86 | ant-s front, brow | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | | 13 | 14 | 9 |
| 87-87 | antro-m hollow, cave + 71 | | | 3 | | 5 | | | | | | | | | | 2 |
| 88-88 | 1. ap- to grasp | 1 | 2 | 3 | | 5 | | | 8 | | | | | 13 | 14 | 7 |
| 89-89 | 2. ăp- water + 1990 | 1 | 2 | | 4 | 5 | 6 | | | | | 11 | | | | 6 |
| 90-90 | 3. ap- fragile, harm | 1 | 2 | | | 5 | | | | | | 11 | | | | 4 |
| 91-91 | appa daddy + 1364 | | | | | 5 | | | | | | | | 13 | | 2 |
| 92-92 | apelo- strength | | | | | 5 | 6 | | | 9 | 10 | | | | | 4 |
| 93-93 | āpero- bank (of river) | | | | | 5 | | | | | 10 | | | | | 2 |
| 94-94 | apo- off, away + 1454 | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | | 10 | 11 | 12 | | ? | 10 |
| 95-95 | apsā aspen tree | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 96-96 | 1. ar- to fit, suit | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | ? | 10 |
| 97-97 | 2. ar- to share | | 2 | 3 | | 5 | | | | | | | | | 14 | 4 |
| 98-98 | 3. ar- nut | | | | | 5 | | 7 | | | | 11 | 12 | | | 4 |
| 99-99 | 4. ar- now, therefore | | | | | 5 | | | | | | 11 | | 13 | | 3 |
| 100-100 | 5. ar- to renounce + 1345 | | | ? | | 5 | | 7 | | | | | | | | 2 |
| 101-101 | ar(ə)- to plough + 107 | | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 8 |
| 102-102 | ardh- stake? + 481 | | | 3 | | | | | | | | 11 | | | | 2 |
| 103-103 | ardi- tip, sting | 1 | | | | 5 | | | | 9 | 10 | | | | | 4 |
| 104-104 | areg- to shut away + 58 | 1 | | | 4 | 5 | | | | | 10 | | | | | 4 |
| 105-105 | ar(e)ĝ- glittering + 496 | 1 | 2 | 3 | 4 | 5 | ? | | 8 | 9 | ? | ? | | 13 | | 8 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 106-106 | areq- to protect + 58 | | | 3 | | 5 | | | 8 | 9 | 10 | 11 | ? | | 14 | 7 |
| 107-107 | arenko- type of grain? + 101 | | | | | 5 | | | ? | 9 | | | | | | 2 |
| 108-108 | ario-? Lord, host + 49 | 1 | 2 | | | | | | | 9 | ? | | | | | 3 |
| 109-109 | arqu- something bent | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 110-110 | arŏd- water bird | | | | | 5 | | | 8 | | 10 | | 12 | | | 4 |
| 111-111 | aro-m reed? (loanword?) | | | | | 5 | | | 8 | | | | | | | 2 |
| 112-112 | aru̯ā- intestines? | | | | | 5 | | | 8 | | | | | | | 2 |
| 113-113 | ăs- to burn, glow | 1 | | 3 | | 5 | | | 8 | ? | 10 | | 12 | 13 | 14 | 8 |
| x | ast(h)- + 1351 | | | | | | | | | | | | | | | |
| 114-114 | at- to go, year | 1 | | | | | | | 8 | | ? | | | | | 2 |
| 115-115 | āt(e)r fire + 508 | | 2 | 3 | | | | ? | | ? | | | ? | | | 2 |
| 116-116 | *ati- name of fish? | | | | | 5 | | | 8 | ? | | 11 | | | | 3 |
| 117-117 | ati beyond | 1 | 2 | ? | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 118-118 | ătos mummy, daddy | 1 | 2 | | | 5 | | 7 | 8 | | 10 | | 12 | | 14 | 8 |
| 119-119 | 1. au exclamation of pain | 1 | | | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 120-120 | 2. au- to stay overnight sleep + 2012 | | | 3 | | 5 | | | | | 10 | | | | | 3 |
| 121-121 | 3. au- down, away from | 1 | 2 | | | 5 | 6 | ? | 8 | 9 | 10 | 11 | 12 | | 14 | 10 |
| 122-122 | 4. au- that, other | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 123-123 | 5. au̯- to plait, weave + 1926, 1941, 1944, 1952, 1953, 1956, 1959, 1962, 1966, 1968, 1969, 1988, 1989, 2017, 2034 | 1 | | | 3 | | 6 | | | 9 | 10 | 11 | 12 | | | 7 |
| 124-124 | 6. au̯- to speak | 1 | | | | 5 | | | | | | 11 | 12 | 13 | | 5 |
| 125-125 | 7. au̯- to like | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | 13 | | 9 |
| 126-126 | 8. au̯- to be aware of | 1 | 2 | | | 5 | | | 8 | | | | 12 | 13 | 14 | 7 |
| 127-127 | 9. au̯- to sprinkle | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 |
| 128-128 | 10. au̯(e)- to blow | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 10 |
| 129-129 | 11. au̯ē- to strain | 1 | | | | 5 | | | | 9 | | | | 13 | | 4 |
| 130-130 | au̯eg- to increase | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | 13 | | 8 |
| 131-131 | au̯ei- bird + 1353 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | | | | | | 7 |
| 132-132 | au̯es- to shine + 514, 2020 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 133-133 | aug- to glitter | | | | | 5 | | 7 | | | | | ? | | | 2 |
| 134-134 | augh- nape of the neck +77 | 1 | | 3 | | 5 | | | | | | | | | | 3 |
| 135-135 | au̯iĝ- type of grass, oats | | | | | | | | 8 | | | 11 | 12 | | | 3 |
| 136-136 | auq$^{u}$̂(h)- cooking pot | 1 | | | | 5 | | 7 | 8 | 9 | 10 | | | | | 6 |
| 137-137 | au-lo-s pipe, conduit | | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 138-138 | au̯o-s maternal grandfather | | | ? | | ? | | | 8 | 9 | 10 | 11 | 12 | | ? | 5 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 139-139 | aus- to draw, scoop | | | | | 5 | | | 8 | | 10 | | | | | 3 |

Totals for Ă - Ăi - Ău - 139

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 74 | 56 | 42 | 8 | 98 | 14 | 20 | 74 | 51 | 83 | 61 | 48 | 34 | | 13=676 |
| % of 139 | 53 | 40 | 30 | 6 | 71 | 10 | 14 | 53 | 37 | 60 | 44 | 35 | 24 | 9 | |
| Rank | 3- | 6 | 9 | 14 | 1 | 12 | 11 | 3- | 7 | 2 | 5 | 8 | 10 | 13 | |

B

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 140-1 | ba$^{x}$b- to swell + 147, 1363 | 1 | | | | | | | 8 | | 10 | 11 | | | | 4 |
| 141-2 | baba- babbling + 160, 161, 202, 242, 243 | 1 | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 7 |
| 142-3 | badi̯os yellow, brown | | | | | | | | 8 | 9 | | | | | | 2 |
| 143-4 | baita goatskin | | | | 4 | | ? | | | | | | | | | 1 |
| 144-5 | bak- staff as support | | | | | 5 | | | 8 | | 10 | 11 | | | | 4 |
| 145-6 | bal- to whirl | 1 | | | | 5 | | | | | | | | | | 2 |
| x | bal-bal + 141 | | | | | | | | | | | | | | | |
| 146-7 | 1. ba$^{x}$mb- bump, thud | | | | | 5 | | 7 | | | 10 | 11 | 12 | | | 5 |
| 147-8 | 2. ba$^{x}$mb- to swell + 140 | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 148-9 | band- drop (of liquid)? | 1 | | | | | 6 | | | 9 | | | | | | 3 |
| x | bar-bar + 141 | | | | | | | | | | | | | | | |
| 149-10 | bata- meaningless stuttering, astonishment | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| 150-11 | bau bow-wow | | | | | 5 | | | 8 | | | 11 | 12 | | | 4 |
| 151-12 | bdel- to suck | | | | | 5 | | | | | 10 | | | | | 2 |
| 152-13 | bē baa (of sheep) | ? | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 153-14 | bed- to swell? | 1 | | 3 | | | | | ? | ? | | | 12 | | | 3 |
| 154-15 | 1. bel- to cut out? | | | 3 | | | | | | 9 | | | | | | 2 |
| 155-16 | 2. bel- strong | 1 | | | | 5 | | | 8 | | ? | | 12 | | | 4 |
| 156-17 | bend- tip jutting out | | | | | | | | | 9 | 10 | | | | | 2 |
| 157-18 | 1. b(e)u dull noise | 1 | 2 | 3 | | 5 | | | 8 | ? | | 11 | 12 | | | 7 |
| 158-19 | 2. b(e)u to blow up +1370, 1471 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 159-20 | bis-(t)li- gall? | | | | | | | | 8 | 9 | | | | | | 2 |
| 160-21 | blat to prattle + 141 | | | | | | | | 8 | | 10 | | | | | 2 |
| 161-22 | blē- to bleat + 202, 242 | | | | | 5 | | 7 | | | 10 | | 12 | | | 4 |
| 162-23 | blou- flea | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 9 |
| 163-24 | bol- node, bulb | 1 | | 3 | | 5 | | | | | | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 164-25 | brangh- hoarse? | | | | | 5 | | | | 9 | | | | | | 2 |
| 165-26 | breuq- to jump | | | | | 5 | | | | | | | 12 | | | 2 |
| 166-27 | bronk- to shut in | | | | | | | | | | 10 | 11 | | | | 2 |
| 167-28 | bu- lip, kiss | | 2 | | | | | 7 | | 9 | 10 | 11 | 12 | | | 6 |

Totals for B - 28

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 | 4 | 6 | 1 | 17 | 1 | 6 | 13 | 10 | 14 | 12 | 13 | 0 | 0 | =109 |
| % of 28 | 43 | 14 | 21 | 4 | 61 | 4 | 21 | 46 | 36 | 50 | 43 | 46 | 0 | 0 | |
| Rank | 5- | 10 | 8- | 11- | 1 | 11- | 8- | 3- | 7 | 2 | 5- | 3- | 13- | 13- | |

Bh

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 168-1 | 1. bhā- to glisten + 181 | 1 | 2 | 3 | | 5 | | 7 | | 9 | 10 | | 12 | 13 | | 9 |
| 169-2 | 2. bhā- to speak | 1 | ? | 3 | | 5 | | | 8 | | 10 | | 12 | 13 | | 7 |
| 170-3 | bhabhā bean | | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 6 |
| 171-4 | bhăd- good | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| 172-5 | 1. bhag- to apportion | 1 | 2 | | 4 | 5 | | | | | | | 12 | 13 | | 6 |
| 173-6 | 2. bhag- sharp + 266 | | | 3 | | 5 | | | | | | | | | | 2 |
| x | bhagh + 262 | | | | | | | | | | | | | | | |
| 174-7 | bhāgó-s beech tree | | ? | | | 5 | | | 8 | 9 | 10 | | ? | | | 4 |
| 175-8 | bhāghú-s elbow, forearm | 1 | 2 | | | 5 | | | | | 10 | | | 13 | | 5 |
| 176-9 | bhar- something jutting out + 177, 179 | 1 | | | | | | 7 | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 177-10 | bhardhā̆ beard +176 | | | | | | | | 8 | | 10 | 11 | 12 | | | 4 |
| 178-11 | bharek$^{u}_{n}$- to stuff full | | | | | 5 | | | 8 | 9 | | | | 13 | | 4 |
| 179-12 | bhares- barley + 176 | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 180-13 | bhasko- bond, bundle | | | | 4 | ? | | | 8 | 9 | | | | | | 3 |
| 181-14 | bhāso- one of the larger birds of prey + 168 | 1 | | | | 5 | | | | | | | | | | 2 |
| 182-15 | bhāt- to hit + 183 | | | | | | | | 8 | 9 | 10 | | 12 | | | 4 |
| 183-16 | 1. bhău- to hit + 182 | | | | | | | 7 | 8 | 9 | 10 | | | | | 4 |
| x | 2. bhāu + 168 | | | | | | | | | | | | | | | |
| 184-17 | 1. b(h)e beside, outside | 1 | | | | | | | | ? | | 11 | 12 | | | 3 |
| 185-18 | 2. b(h)ĕ emphatic particle | ? | 2 | 3 | | | | | | | 10 | 11 | 12 | | | 5 |
| 186-19 | bhē- to warm, roast | | | | | 5 | 6 | | | | 10 | | ? | | | 3 |
| x | bhebhru +216 | | | | | | | | | | | | | | | |
| 187-20 | 1. bhedh- to stab, dig | | | | | ? | | | 8 | 9 | 10 | 11 | 12 | 13 | ? | 6 |
| 188-21 | 2. bhedh- to crook, bend | 1 | | | | | | 7 | | | 10 | 11 | | 13 | | 5 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 189-22 | bheg- to smash + 261 | 1 | | 3 | ? | | | | | 9 | ? | 11 | 12 | | | 5 |
| 190-23 | bhēgh- to dispute | | | | | | | | | 9 | 10 | 11 | 12 | ? | | 4 |
| 191-24 | bheg$^{u}_{\wedge}$- to run away | 1 | | | | 5 | | | | | | 11 | 12 | 13 | | 5 |
| 192-25 | bhei- bee | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 193-26 | bheid- to split + 195 | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 194-27 | 1. bheidh- to encourage | | | | | 5 | | 7 | 8 | | 10 | | 12 | | | 5 |
| x | 2. bheidh- + 238 | | | | | | | | | | | | | | | |
| 195-28 | bhei(ə)- to hit + 193 | | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | | 12 | | | 8 |
| 196-29 | bheig$^{u}_{\wedge}$- to glitter? | | 2 | | | 5 | | | | | | | | | | 2 |
| 197-30 | 1. bhel- glittering white + 198, 205, 249, 250, 252, 254, 255 | 1 | | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ? | | 10 |
| 198-31 | 2. bhel- henbane + 197 | | | | | | ? | | | 9 | 10 | | 12 | | | 3 |
| 199-32 | 3. bhel- to blow up + 246, 251 | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 | 10 | | | | | 8 |
| 200-33 | 4. bhel- leaf, bloom | | | | | 5 | | | 8 | 9 | 10 | | | 13 | | 5 |
| 201-34 | 5. bhel- beam | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 202-35 | 6. bhel- to resound + 141 | 1 | | | | | | | | | 10 | 11 | | 13 | | 4 |
| 203-36 | bh(e)lāg- slack, silly? | | | | | | | | | | | | 12 | | | 1 |
| 204-37 | bheld- to poke, hit | | | | | | | | | | 10 | 11 | | | | 2 |
| 205-38 | bheleg- to glisten + 197 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 8 |
| 206-39 | bheleu- to hit, weaken + 253, 256 | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 207-40 | bhelĝh- to swell | 1 | 2 | | | | | | | 9 | 10 | 11 | 12 | | | 6 |
| 208-41 | bhen- to hit, wound | | 2 | | | | | | | 9 | 10 | | | | | 3 |
| 209-42 | bhend- to sing, rejoice | 1 | | | | | | | | 9 | | | | | | 2 |
| 210-43 | bhendh- to tie, bind | 1 | 2 | | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 9 |
| 211-44 | bhenĝh- thick, dense | 1 | 2 | | | 5 | | | ? | | 10 | 11 | | 13 | 14 | 7 |
| 212-45 | 1. bher- to carry, bring + 276, 277, 278, 284 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | ? | 13 |
| 213-46 | 2. bher- to well up + 227, 270 | 1 | 2 | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | 9 |
| 214-47 | 3. bher- to work with a sharp tool + 275, 283, 285, 287, 289 | 1 | 2 | 3 | ? | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 215-48 | 4. bher- to hum, buzz + 220, 225 | 1 | | 3 | | 5 | | | | | | 11 | 12 | | | 5 |
| 216-49 | 5, bher- glittering, bright brown + 221, 223 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 9 |
| 217-50 | 6. bher- to roast, bake | 1 | 2 | | | 5 | ? | | 8 | | | 11 | | | | 5 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 218-51 | 7. bher- to plait, weave | | | | | 5 | | | | | | 11 | | | | 2 |
| 219-52 | bheredh- to cut | 1 | | | | ? | | | | | 10 | | | | | 2 |
| 220-53 | bhereg- to drone, bark + 215, 225 | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 221-54 | bherəĝ- to glitter, white, birch tree + 216 | 1 | 2 | | 4 | | | 7 | | | 10 | 11 | 12 | | | 7 |
| 222-55 | bhereĝh- high, noble +228 | 1 | 2 | 3 | 4 | | 6 | | 8 | 9 | 10 | | 12 | 13 | 14 | 11 |
| 223-56 | bherəǩ- to glitter + 216 | 1 | | | | 5 | | | | ? | 10 | | | | 14 | 4 |
| 224-57 | 1. bherem- to stand out | | | | | | | | 8 | | 10 | | | | | 2 |
| 225-58 | 2. bherem- to buzz, hum + 215, 220 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 226-59 | bheres- quick | | | | | | ? | | 8 | 9 | | 11 | 12 | | | 4 |
| 227-60 | bh(e)reu- to surge + 213, 270 | 1 | | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 228-61 | bherĝh- to hide + 222 | | | | | | | | | ? | 10 | 11 | 12 | | | 3 |
| 229-62 | bh$_e$rug- throat | | | 3 | | 5 | | | 8 | | 10 | 11 | | | | 5 |
| 230-63 | 1. bhes- to rub off + 267 | 1 | | | | 5 | | 7 | 8 | | 10 | | | 13 | | 6 |
| 231-64 | 2. bhes- to breathe + 1403, 1426, 1433 | 1 | | | | 5 | | | | | | | | | | 2 |
| 232-65 | bheu- to grow, prosper | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ? | | 12 |
| 233-66 | bheudh to awaken, | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | 13 | | 8 |
| 234-67 | 1. bheug- to flee | | | | | 5 | ? | | 8 | | | 11 | | | | 3 |
| 235-68 | 2. bheug- to put away | 1 | 2 | | | | 6 | | | | 10 | | | | | 4 |
| 236-69 | 3. bheug- to bend | 1 | | | | | | ? | | 9 | 10 | 11 | | | | 4 |
| 237-70 | 4. bheug- to enjoy | 1 | | | | | | 7 | 8 | | | | | | | 3 |
| 238-71 | bhidh- pot, vat | | | | | 5 | | | 8 | | 10 | | | | | 3 |
| 239-72 | bhili- even, good | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 240-73 | bhlaĝ- to hit | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 241-74 | bhlagh-men- wizard | | | 1 | | 3? | | | 6 | 8 | 10 | | | | | 4 |
| 242-75 | bhlē- to howl + 161, 202 | | | | | | | | 8 | | | 11 | 12 | | | 3 |
| 243-76 | bhlēd- to bubble up + 141 | | | | | 5 | | | | 9 | 10 | 11 | | | | 4 |
| 244-77 | bhleg$^u$- to become bloated | | | | | 5 | | | | | 10 | | | | | 2 |
| 245-78 | 1. bhlei- to glitter + 247, 248, 257 | | | | | | | | | | 10 | 11 | 12 | 13 | | 4 |
| 246-79 | 2. bhlei- to blow up + 199 | | | | | 5 | | | | ? | 10 | 11 | 12 | | | 4 |
| 247-80 | bhlēiĝ- to glitter + 245 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 248-81 | bhleiq- to glitter + 245 | | | | | | | | | | 10 | | 12 | | | 2 |
| 249-82 | bhlendh- dim, reddish + 197 | 1 | | | | | | | | | 10 | 11 | 12 | | | 4 |
| 250-83 | bhles- to glitter + 197 | | | | | | | | | | 10 | | | | | 1 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 251-84 | bhleu- to blow up + 199 | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 252-85 | 1. bhlēu- to glitter + 197 | | | | | | | | | | | 11 | 12 | | | 2 |
| 253-86 | 2. bhlēu- weak, miserable + 206 | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 254-87 | bhleu-(k)- to burn + 197 | | | | | 5 | | | | | 10 | ? | ? | | | 2 |
| 255-88 | bhlē-u̯o-s (of light colours) blue, yellow, blond + 197 | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 256-89 | bhleus- slack? + 206 | | | | | | | | | | 10 | 11 | | | | 2 |
| 257-90 | bhlәido-s light, pale + 245 | | | | | | 6 | 7 | | | 10 | 11 | 12 | | | 5 |
| 258-91 | bhlīĝ- to hit | | | | | 5 | | | 8 | 9 | | 11 | 12 | | | 5 |
| 259-92 | bhlŏk- wool, tow, flock | | | | | | | | 8 | | 10 | | | | | 2 |
| 260-93 | bhlos-q- (root in) sounds | | | | | | | | | 9 | | 11 | | | | 2 |
| 261-94 | bhog- flowing water + 189 | | | | | | | | | 9 | 10 | ? | | | | 2 |
| 262-95 | bhŏgh- mud, swamp | | | | | | | | | | 10 | | 12 | | | 2 |
| 263-96 | bhōi- to be afraid | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 264-97 | bhok- to flame, burn? | | | 3 | | | | | 8 | | | | | | | 2 |
| 265-98 | bholo- mist, steam | | | ? | | | | | | 9 | | 11 | | | | 2 |
| 266-99 | bhorg$^{u}_{\sim}$o-s gruff + 173 | | | 3 | | | | | | 9 | 10 | 11 | | | | 4 |
| 267-100 | bhoso-s naked + 230 | | | 3 | | ? | | | | | 10 | 11 | 12 | | | 4 |
| 268-101 | bhoudhi- victory? | | | | | | | | | 9 | 10 | | | | | 2 |
| 269-102 | bhouk$^{u}_{\sim}$os humming insect | | | | | | | | 8 | | 10 | | | | | 2 |
| 270-103 | bhrag- to smell + 213 | | | | | | | | 8 | | 10 | | | | | 2 |
| 271-104 | bhrā́ter- member of the family, brother | 1 | 2 | 3 | 4 | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 272-105 | bhred(h?)- to wade | | | | 4 | | 6 | 7 | | ? | | 11 | 12 | | | 5 |
| 273-106 | 1. bhreĝ- to break + 279, 281 | 1 | | | | | | | 8 | 9 | 10 | 11 | | | | 5 |
| 274-107 | 2. bhreĝ- to stand up stiff | 1 | | | | ? | | | | ? | 10 | | | | | 2 |
| 275-108 | bhrēi- to cut + 214 | 1 | 2 | | 4 | | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 276-109 | bhren- to bulge + 212 | | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 5 |
| 277-110 | bhrendh- to swell up + 212 | | | | | | | | | 9 | | 11 | 12 | 13 | | 4 |
| 278-111 | bhrenk- to bring + 212 | | | | | | | | | 9 | 10 | | | 13 | | 3 |
| 279-112 | bhre(n)k̂- to be ensnared? + 273 | 1 | | | | | | | | 9 | | | | | | 2 |
| 280-113 | bhren-to-s deer + 276 | | | | | | 6 | ? | | | 10 | 11 | | | | 3 |
| 281-114 | bhres- to burst + 273 | | | | | | | | | 9 | 10 | 11 | | | | 3 |
| 282-115 | bhreu- to sprout + 286, 293 | | | | | | | | 8 | 9 | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 283-116 | 1. bhrĕ̄u- to cut + 214, | 1 | | | | | | | | ? | 10 | 11 | 12 | | | 4 |
| 284-117 | 2. bhrē̆u- edge + 212 | | | | | | | | | 9 | 10 | 11 | | | | 3 |
| 285-118 | bhreu-k̂- to stroke + 214 | | | | | | ? | | | ? | | 11 | 12 | | | 2 |
| 286-119 | 1. bhreu-s- to swell + 282 | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 287-120 | 2. bhreu-s- to break to pieces + 214 | | | | | | | 7 | 8 | 9 | 10 | | | | | 4 |
| 288-121 | 3. bhreu-s- to bluster + 286? | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 289-122 | bhroisqo- bitter (to taste) + 214 | | | | | | | | | | | | 12 | | | 1 |
| 290-123 | 1. bhrū- eye-brow | 1 | 2 | | 4 | 5 | | | | 9 | 10 | 11 | 12 | 13 | | 9 |
| 291-124 | 2. bhrū- beam | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 292-125 | bhrūg- fruit; to enjoy | | | | | | | | 8 | | 10 | | | | | 2 |
| 293-126 | bhrugh-no- twig + 282 | | | | | | | | | 9 | 10 | | | | | 2 |
| 294-127 | bhudh-m(e)n ground | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 | 10 | | | | | 7 |
| 295-128 | bhŭ̆ĝo-s he-goat | 1 | 2 | 3 | | | | | | 9 | 10 | | | | | 5 |

Totals for Bh - 128

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 51 | 28 | 21 | 15 | 53 | 13 | 19 | 55 | 60 | 99 | 67 | 62 | 22 | 3 | = 568 |
| % of 128 | 40 | 22 | 16 | 12 | 41 | 10 | 15 | 43 | 47 | 77 | 52 | 48 | 17 | 2 | |
| Rank | 7 | 8 | 10 | 12 | 6 | 13 | 11 | 5 | 4 | 1 | 2 | 3 | 9 | 14 | |

D

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 296-1 | dā- fluid, to flow | 1 | 2 | 3 | | 5 | | 7 | | 9 | | | | | ? | 6 |
| 297-2 | dā- to divide +314,353 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | | ? | 13 | 14 | 10 |
| 298-3 | dāiu̯ēr husband's brother | 1 | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 299-4 | dak̂ru- tear + 46 | | | | | 5 | | | 8 | 9 | 10 | | | | | 4 |
| 300-5 | dāu- to burn | 1 | | 3 | | 5 | | 7 | 8 | 9 | 10 | ? | | | | 7 |
| 301-6 | *dəĝh-mó- slanting + 340, 529 | 1 | | 3 | | | | | | | | | | | | 2 |
| 302-7 | de- (demonstrative stem) | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 303-8 | dē- to tie | 1 | ? | | | 5 | | 7 | | | | | | | | 3 |
| 304-9 | dēg- to pack? | | | | | | | | | | 10 | | | 13 | | 2 |
| 305-10 | 1. dei- to glitter brightly | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | ? | 12 |
| 306-11 | 2. dei̯ə- to swing, spin | 1 | | | | 5 | | | | 9 | | 11 | ? | | | 4 |
| 307-12 | deiĝh- to itch | | | 3 | | | | | | 9 | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 308-13 | deiḱ- to show | 1 | 2 | | | 5 | | | 8 | | 10 | | | | ? | 5 |
| 309-14 | 1. deḱ- to take + 334 | 1 | 2 | ? | | 5 | | 7 | 8 | 9 | ? | 11 | ? | 13 | | 8 |
| 310-15 | 2. deḱ- to rip to pieces + 320 | 1 | | | | | | | | 9 | 10 | ? | | | | 3 |
| 311-16 | dekm̥ ten + 2027 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 312-17 | 1. del- to aim, calculate | | | ? | | 5 | | | | | 10 | | | | | 2 |
| 313-18 | 2. del- to totter, shake | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 314-19 | 3. del- to split + 297 | 1 | | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 315-20 | 4. del- to dribble | | | 3 | | | | | | 9 | 10 | | | | | 3 |
| 316-21 | 5. del- long | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 317-22 | dem- to build | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 318-23 | (dema-) to tame | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | | | | 14 | 8 |
| 319-24 | demel- worm? | | | | | 5 | | ? | | | | | | | | 1 |
| 320-25 | denḱ- to bite + 310 | 1 | 2 | | | 5 | | 7 | | | 10 | | | | | 5 |
| 321-26 | 1. dens- great mental power + 322 | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 322-27 | 2. dens- dense + 321 | | | | | 5 | | ? | 8 | | | | | | 14 | 3 |
| 323-28 | deph- to stamp, thrust | | | 3 | | 5 | | | | | | | 12 | | | 3 |
| 324-29 | 1. der- span of hand +327 | | | | | 5 | | 7 | | ? | 10 | ? | | | | 3 |
| 325-30 | 2. (der-) to grumble +383 | 1 | | | | 5 | | | | 9 | | 11 | 12 | 13 | | 6 |
| 326-31 | 3. (der-) to run | 1 | 2 | 3 | 4 | 5 | 6 | | | 9 | 10 | 11 | 12 | | | 10 |
| 327-32 | 4. der- to skin + 324 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 328-33 | derbh- to wind | 1 | 2 | 3 | | 5 | | | | | 10 | | 12 | | | 6 |
| 329-34 | der(ep)- to see? +332 | 1 | | | | 5 | | | | | | | | | | 2 |
| 330-35 | dera- to work | | | | | 5 | | | | | | 11 | | | | 2 |
| 331-36 | dergh- to grasp | | | 3 | | 5 | | | | 9 | 10 | | | | | 4 |
| 332-37 | derḱ- to look + 329 | 1 | 2 | | | 5 | | 7 | | 9 | 10 | | | | | 6 |
| 333-38 | deru- tree | 1 | 2 | 3 | 4 | 5 | | 7 | ? | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 334-39 | des- to find + 309 | | | | | 5 | | 7 | | | | | 12 | | | 3 |
| 335-40 | 1. deu- to sink in | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 336-41 | 2. (deu-) to venerate | 1 | | | | | | | 8 | | 10 | | | | | 3 |
| 337-42 | 3. deu- to move forward | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | 12 | | 14 | 9 |
| 338-43 | deuk- to pull | | | | | 5 | | 7 | 8 | 9 | 10 | | | | | 5 |
| 339-44 | deup- dull thud (noise) | | | | | 5 | | | | | | 11 | 12 | 13 | | 4 |
| 340-45 | dəĝh-mó-s slanting + 301 | 1 | | | | 5 | | | | | | | | | | 2 |
| 341-46 | digh- goat | | | 3 | 4 | 5 | | | | | 10 | | | | | 4 |
| 342-47 | dĭp-ro- sacrificial animal | | | 3 | | | | | | | 10 | | | | | 2 |
| 343-48 | dlkú- (?) sweet | | | | | 5 | | | 8 | | | | | | | 2 |
| 344-49 | dn̥ĝhū tongue | 1 | 2 | 3 | | | | | 8 | 9 | 10 | 11 | 12 | 13 | | 9 |
| 345-50 | dō- to give | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | | | 11 | 12 | | 14 | 10 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 346-51 | dous- arm | 1 | 2 | | | | | | | 9 | | 11 | 12 | | | 5 |
| 347-52 | drē- to sleep | 1 | | 3 | | 5 | | | 8 | | | | 12 | | | 5 |
| 348-53 | dreĝh- unwilling, vexed | | | | | | | | | | 10 | 11 | | | | 2 |
| 349-54 | dumb- penis | | 2 | | | | | | | | 10 | ? | | | | 2 |
| 350-55 | dus- evil, bad, mis- | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | 12 | | | 8 |
| 351-56 | dṷei- to fear | 1 | 2 | 3 | | 5 | | | 8 | | | | | | | 5 |
| 352-57 | dṷō(u) two + 707 | 1 | 2 | 3 | ? | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | ? | 11 |

Totals for D - 57

| | 1 - | 2 - | 3 - | 4 - | 5 - | 6 - | 7 - | 8 - | 9 - | 10 - | 11 - | 12 - | 13 - | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 38 | 26 | 25 | 4 | 46 | 4 | 16 | 25 | 28 | 36 | 21 | 22 | 13 | 8 | = 312 |
| % of 57 | 67 | 46 | 44 | 7 | 81 | 7 | 28 | 44 | 49 | 63 | 37 | 39 | 23 | 14 | |
| Rank | 2 | 5 | 6- | 13- | 1 | 13- | 10 | 6- | 4 | 3 | 9 | 8 | 11 | 12 | |

## Dh

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 353-1 | 1. dhă̄bh- to be astonished + 297, 361? | | | | | 5 | | | | | 10 | ? | ? | | | 2 |
| 354-2 | 2. dhabh- to fix, suit | | | 3 | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 355-3 | dhă̄l- to bloom + 369 | | | 3 | | 5 | | 7 | | 9 | ? | | | | | 4 |
| 356-4 | dhanu- type of tree | 1 | | | | | | | | | 10 | | | | | 2 |
| 357-5 | 1. dhau- to strangle | | 2 | | 4 | 5 | 6 | | | | 10 | | 12 | | | 6 |
| x | 2. dhāu- + 365 | | | | | | | | | | | | | | | |
| 358-6 | 1. dhē- (redupl.) older member of family (child's language) + 364 | | | | | 5 | 6 | | | | ? | 11 | 12 | | | 4 |
| 359-7 | 2. dhē- to set + 1958 | 1 | 2 | 3 | 4 | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 |
| 360-8 | 3. dhē- to pass away | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 361-9 | dheb- thick, firm + 353? | | | | | | | | | | 10 | 11 | 12 | 13 | | 4 |
| 362-10 | dhebh- to injure + 375, 397 | 1 | 2 | | | 5 | | | | | | | | | 14 | 4 |
| 363-11 | dhegṷ̂h- to burn | 1 | 2 | | | 5 | | 7 | 8 | 9 | ? | 11 | 12 | 13 | | 9 |
| 364-12 | dhē(i)- to suck(le) + 358 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 11 |
| 365-13 | dheį̂ə- to see, look | 1 | 2 | | | 5 | | 7 | | | | | | | | 4 |
| 366-14 | dhēigṷ̂- to stab | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 367-15 | dheiĝh- to knead clay | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 368-16 | 1. dhel- hollow | | | | | 5 | | | | 9 | 10 | | 12 | | | 4 |
| 369-17 | 2. dhel- to light + 355 | | | ? | | | | | | 9 | 10 | | | | | 2 |
| 370-18 | 3. dhel- to tremble | | | 3 | | | | | | | 10 | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 371-19 | dhelbh- to dig | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 372-20 | dhelg- to stab; needle | | | | | | ? | | ? | 9 | 10 | 11 | | | | 3 |
| 373-21 | dhelgh- to hit? | | | | | ? | | | | | 10 | | | ? | | 1 |
| 374-22 | dhem- to fly about like dust | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | | | 7 |
| 375-23 | (dhembh-) to dig + 362 | | | 3 | | 5 | | | | | | ? | | | | 2 |
| 376-24 | 1. dhen- to run, flow | 1 | 2 | | | | 6 | | 8 | | | | | 13 | | 5 |
| 377-25 | 2. dhen- flat (of hand) | 1 | | | | 5 | | | 8 | | 10 | ? | | | | 4 |
| 378-26 | 3. dhen- to hit, thrust | | | | | | | 7 | | | 10 | | | | | 2 |
| 379-27 | 1. dhengh- to press | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 380-28 | 2. dhengh- to reach | 1 | | | | 5 | | | | 9 | | | 12 | | | 4 |
| 381-29 | 1. dher- dirt + 384, 385 | | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 8 |
| 382-30 | 2. dher- to hold | 1 | 2 | ? | 4 | 5 | | | 8 | 9 | 10 | 11 | 12 | | ? | 9 |
| 383-31 | 3. dher- to growl + 325 | 1 | | 3 | | 5 | | | | 9 | 10 | 11 | 12 | ? | | 7 |
| 384-32 | 4. (dher-) to jump + 381 | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| 385-33 | 5. dher- dirt + 381 | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 386-34 | dherāgh- to pull 406, 1862, 1865, 1866, 1868, 1885, 1890, 1898, 1902 | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 387-35 | dherbh- to work | | | 3 | | | | | | | 10 | 11 | | | | 3 |
| 388-36 | dherebh- coagulated | 1 | | | | 5 | | | | | 10 | | | | | 3 |
| 389-37 | dheregh- (in names of berry-bearing thorny bushes) | 1 | | | | ? | | | | 9 | ? | 11 | 12 | | | 4 |
| 390-38 | dhereĝh- to turn | | 2 | 3 | | | | 7 | | | | | | ? | ? | 3 |
| 391-39 | dhers- to dare, be bold | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | | ? | | 6 |
| 392-40 | dhēs- (in religious concepts) | 1 | | 3 | | ? | | | 8 | | | | | | | 3 |
| 393-41 | 1. dheu- to run, flow | 1 | 2 | | 4 | 5 | 6 | | | ? | 10 | | ? | | | 6 |
| 394-42 | 2. dheu- to pass away | | | 3 | | | | | ? | 9 | 10 | 11 | | | | 4 |
| 395-43 | 3. dheu- shining bright | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 396-44 | 4. dheu- to fly about (like dust) + 399 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 397-45 | dheu-b- deep, hollow +362 | | | | 4 | 5 | 6 | | | 9 | 10 | 11 | 12 | | | 7 |
| 398-46 | dheubh- peg, wedge | | | | | 5 | | | | | 10 | | | | | 2 |
| 399-47 | dheu̯es- to fly about (like dust) + 396 | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 400-48 | dheugh- to touch, press | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | | | 7 |
| 401-49 | dhlas- to squash? | 1 | | | | 5 | | | | | | | 12 | | | 3 |
| 402-50 | dhl̥gh- guilt, duty | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 403-51 | dhō- to sharpen | 1 | 2 | | | 5 | | | | | ? | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 404-52 | dhō̄(u)- rope? | | | | | 5 | | | ? | | | | | ? | | 1 |
| 405-53 | dhrebh- to break (grind) to pieces | | | | | ? | | | | | 10 | | 12 | | | 2 |
| 406-54 | dhreĝ- to pull + 386 | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 407-55 | 1. dhregh- to run | | | 3 | | 5 | | | | 9 | | ? | | | | 3 |
| 408-56 | 2. dhregh- to torment | 1 | 2 | | | | | | | | 10 | | 12 | | | 4 |
| 409-57 | dhreibh- to drive, thrust | | | | | | | | | | 10 | 11 | | | | 2 |
| 410-58 | dhreu- to crumble | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 411-59 | 1. dhreugh- to tremble | | | | | ? | | | | | ? | 11 | 12 | | | 2 |
| 412-60 | 2. dhreugh- to deceive | 1 | 2 | | | | | | | 9 | 10 | | | | | 4 |
| 413-61 | dhrigh- hair, bristle | | | | | 5 | | | | 9 | | 11 | 12 | | | 4 |
| 414-62 | dhrono- brightly coloured? | | | | | ? | 6 | ? | | ? | | | | | | 1 |
| 415-63 | dhug(h)ə̄ter- daughter | 1 | 2 | 3 | | 5 | | | 8 | | 10 | 11 | 12 | 13 | | 9 |
| 416-64 | dhu̯en- to sound, drone | 1 | | | | | | | | | 10 | ? | | | | 2 |
| 417-65 | dhu̯er- to harm (by trickery) | 1 | | | | | | | 8 | | | | | | 14 | 3 |
| 418-66 | dhu̯ĕr- door | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 419-67 | dhu̯ergh- dwarflike? | | ? | | | | | | | | 10 | ? | | | | 1 |

Totals for Dh - 67

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 21 | 16 | 6 | 37 | 8 | 10 | 20 | 28 | 46 | 31 | 32 | 9 | 3 | = 299 |
| % of 67 | 48 | 31 | 24 | 9 | 55 | 12 | 15 | 30 | 42 | 69 | 46 | 48 | 13 | 4 |
| Rank | 3 | 7 | 9 | 13 | 2 | 12 | 10 | 8 | 6 | 1 | 5 | 4 | 11 | 14 |

E

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 420-1 | 1. ĕ̄ near to + 1357 | 1 | 2 | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 8 |
| 421-2 | 2. ē̄ (exclamation) | 1 | | | | 5 | | | 8 | | 10 | 11 | | | | 5 |
| 422-3 | 3. e- (demonstrative particle) he, the +505 | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | ? | 11 |
| 423-4 | (ebhi ?) up to + 64 | 1 | 2 | | | | | | ? | | 10 | ? | 12 | | | 4 |
| 424-5 | ed- to eat | 1 | 2 | 3 | ? | 5 | ? | | 8 | 9 | 10 | 11 | 12 | | 14 | 10 |
| 425-6 | 1. edh- tip, point | | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 5 |
| 426-7 | 2. edh- fence of stakes | | | | | ? | | | | | 10 | | 12 | | | 2 |
| 427-8 | eg- lack | | | | | | | | 8 | | 10 | | | | | 2 |
| 428-9 | ĕĝ- to speak, say | ? | ? | 3 | | 5 | | | 8 | | | | | | | 3 |
| 429-10 | eĝ- I +1162 | 1 | 2 | 3 | | 5 | 6 | | 8 | | 10 | 11 | 12 | 13 | 14 | 11 |
| 430-11 | eĝhero- lake? | | | | 4 | ? | ? | | | | | 11 | 12 | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 431-12 | eĝhi- hedgehog + 79 | | | 3 | 4 | 5 | | | | | 10 | 11 | 12 | | | 6 |
| 432-13 | eĝhs out of | | | ? | | 5 | | | 8 | 9 | | 11 | 12 | | | 5 |
| 433-14 | egnis fire | 1 | | | | | | | 8 | | | 11 | 12 | | ? | 4 |
| 434-15 | ehem (exclamation) | 1 | | | | | | | 8 | | 10 | | | | | 3 |
| 435-16 | 1. ei- to go | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 11 |
| 436-17 | 2. ĕi (exclamation) | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 437-18 | 3. ei- bright, reddish | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 438-19 | 4. ei- stake, shaft | 1 | | | | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 439-20 | eibh- to copulate | 1 | | | | 5 | 6 | | | | 10 | | 12 | | | 5 |
| 440-21 | eig- to lament | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 441-22 | eik- to possess | 1 | 2 | | | | | | | | 10 | | | ? | | 3 |
| 442-23 | 1. eis- to move violently | 1 | 2 | | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 443-24 | 2. ei-s- ice | | 2 | | | | | | | | 10 | 11 | 12 | | | 4 |
| 444-25 | ek̂u̯o-s horse | 1 | 2 | | 4 | 5 | 6 | | 8 | 9 | 10 | 11 | | 13 | ? | 10 |
| 445-26 | 1. el- (colour root) red, brown + 56 | 1 | 2 | 3 | 4 | 5 | ? | | 8 | 9 | 10 | 11 | 12 | | | 10 |
| x | 2. el- + 1071 | | | | | | | | | | | | | | | |
| 446-27 | 3. el- to be mouldy | 1 | | 3 | | | | | 8 | | 10 | 11 | | | | 5 |
| 447-28 | 4. el- (onomat. root) +56 | | | 3 | | 5 | | | | | 10 | 11 | | | | 4 |
| 448-29 | 5. el- to destroy | | | 3 | | 5 | | | ? | ? | | | | | | 2 |
| 449-30 | 6. el- to drive | | | 3 | | 5 | | | | 9 | ? | | | | | 3 |
| 450-31 | 7. el- hungry; bad? | | | | | | | | | 9 | ? | 11 | 12 | | | 3 |
| 451-32 | 8. el- to bend; elbow | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 452-33 | ē1- strip? | 1 | | | | ? | | | | | 10 | | | | | 2 |
| 453-34 | ē1ā awl | 1 | | | | | | | | | 10 | | | | | 2 |
| 454-35 | elg- needy | | | 3 | | | | | | | 10 | 11 | | | | 3 |
| x | elk- + 450 | | | | | | | | | | | | | | | |
| 455-36 | elkos- abscess | 1 | | | | 5 | | | 8 | ? | | | | | | 3 |
| 456-37 | em- to take | | | | | | | | 8 | 9 | | 11 | 12 | | 14 | 5 |
| 457-38 | embhi- gnat, bee? | | | | | 5 | | | | | 10 | | | | | 2 |
| 458-39 | 1. en in + 1292, 1303 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | ? | 13 |
| 459-40 | 2. en- year | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 460-41 | ēn behold! | | | | | 5 | | | 8 | | | | | | | 2 |
| 461-42 | 1. (enebh-) navel | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | | | 7 |
| 462-43 | 2. (enebh-) damp; water +1678 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | | 12 | | 14 | 10 |
| 463-44 | enek- to reach | 1 | 2 | 3 | | 5 | | ? | 8 | 9 | 10 | 11 | 12 | ? | 14 | 10 |
| 464-45 | ĕneu without | 1 | 2 | | | 5 | | | ? | | 10 | | | | | 4 |
| 465-46 | e-neuen nine + 1313, 1317 | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 466-47 | engu̯- bump, swelling | | | | | 5 | | | 8 | | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 467-48 | eno- that | 1 | 2 | 3 | ? | 5 | | | 8 | | 10 | 11 | 12 | ? | ? | 8 |
| 468-49 | en(o)m̥n- name | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 469-50 | enos- burden | 1 | | | | ? | | | 8 | | | | | | | 2 |
| 470-51 | enq- (onomat.) to sigh | | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 471-52 | ent- to plot, originate | 1 | 2 | | | 5 | | 7 | | 9 | | | | | | 5 |
| 472-53 | epero- (wild) boar | | | | ? | | | | 8 | | 10 | 11 | 12 | | | 4 |
| 473-54 | epi near to + 64 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ? | ? | 11 |
| 474-55 | ēpi- companion | 1 | | | | 5 | | | | | | | | | | 2 |
| 475-56 | epop call of hoopoe | | 2 | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 476-57 | eph- to cook | | | 3 | | 5 | | | | | | | | | | 2 |
| 477-58 | 1. er- eagle | | | 3 | | 5 | | | | 9 | 10 | 11 | 12 | | 14 | 7 |
| 478-59 | 2. er- he-goat | | | 3 | | 5 | | | 8 | 9 | | 11 | 12 | | | 6 |
| 479-60 | 3. er- to set in motion + 491, 497, 1482, 1517 | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 12 |
| 480-61 | 4. er- earth | | | ? | | 5 | | | | 9 | 10 | | | | | 3 |
| 481-62 | 5. er- loose + 103 | 1 | | | | 5 | | | ? | | | 11 | 12 | | | 4 |
| 482-63 | ereb- to hollow out | | | | | ? | | | | | | 11 | | | | 1 |
| 483-64 | ĕreb(h) (in dark colours reddish brown + 1490 | | | | | 5 | 6 | 7 | | 9 | 10 | 11 | 12 | | | 7 |
| 484-65 | ered- to flow away | 1 | 2 | | | ? | ? | | | ? | | | | | | 2 |
| 485-66 | ereg$^{u}_{\eta}$(h)o- pea, legume | ? | | | | 5 | | | 8 | ? | 10 | | | | | 3 |
| 486-67 | 1. erek- mite, louse | 1 | | 3 | | | | 7 | 8 | | | 11 | | | | 5 |
| 487-68 | 2. er(e)k- to split | 1 | | | | | | | | | | 11 | | | | 2 |
| 488-69 | 1. eres- to stab | 1 | 2 | | | | | | | | | 11 | 12 | | | 4 |
| 489-70 | 2. eres- to flow | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | 13 | 14 | 11 |
| 490-71 | 1. ereu- to seek | | | | | 5 | | | | | 10 | | | | | 2 |
| 491-72 | 2. ereu- to rip up + 479 | 1 | | | | | | | | | 10 | | | | | 2 |
| 492-73 | 1. erə- to row; oar | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | | | | 6 |
| 493-74 | 2. erə- to rest | | 2 | | | 5 | | | | 9 | 10 | | | | | 4 |
| 494-75 | er(ə)d- high; to grow | | 2 | | | | | 7 | 8 | 9 | 10 | | 12 | 13 | | 7 |
| 495-76 | ergh- to shake | 1 | 2 | | | 5 | | | | | 10 | 11 | | | | 5 |
| 496-77 | erk$^{u}_{\eta}$- to beam + 105 | 1 | | 3 | | | | | | 9 | | | | 13 | 14 | 5 |
| 497-78 | ers- backside, tail + 479 | | | 3 | | 5 | | | | | 10 | | | | 14 | 4 |
| 498-79 | es- to be | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 |
| 499-80 | esu-s good, able | | | | | 5 | | | ? | ? | | | | | 14 | 2 |
| 500-81 | ĕs- to sit | 1 | 2 | | | | | | | | | | | | 14 | 3 |
| 501-82 | espen- summer, harvest | | | | | ? | | | | ? | 10 | 11 | 12 | | | 3 |
| 502-83 | ĕs-r̥(g$^{u}_{\eta}$) blood | 1 | | 3 | | 5 | | | 8 | | | 11 | | 13 | 14 | 7 |
| 503-84 | et(e)n- kernel, corn? | | | | | 5 | | | | 9 | | | | | | 2 |
| 504-85 | ēter- intestines | | ? | | | 5 | | | | 9 | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 505-86 | eti beyond + 422 | 1 | 2 | | 4 | 5 | ? | | 8 | 9 | 10 | 11 | | ? | | 8 |
| 506-87 | ētī- eiderduck + 75 | | | | | | | | | | 10 | | | | | 1 |
| 507-88 | ēt-mén- breath | 1 | | | | | | | | ? | 10 | | | | | 2 |
| 508-89 | ētro- quick, violent +115 | | | | | | | | | | 10 | 11 | | ? | | 2 |
| 509-90 | 1. eu- to lack; empty | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | | | 8 |
| 510-91 | 2. eu- to dress | | | 2 | 3 | | | | 8 | 9 | | 11 | 12 | | ? | 6 |
| 511-92 | 3. eu- to feel | 1 | 2 | | | | | | | | | 11 | | | | 3 |
| 512-93 | 4. eu- cry of joy | | | | | 5 | | | 8 | | | | | | | 2 |
| 513-94 | ēudh- udder | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 514-95 | euk- to accustom oneself | 1 | 2 | 3 | | 5 | | | | 9 | 10 | 11 | 12 | | | 8 |
| 515-96 | eus- to burn + 132 | 1 | | | | 5 | | 7 | 8 | | 10 | 11 | | | | 6 |
| 516-97 | eu̯egʷh- to speak in a formal fashion | 1 | 2 | 3 | | 5 | | | 8 | | | | | | | 5 |

Totals for E - 97

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 56 | 39 | 37 | 9 | 65 | 9 | 15 | 51 | 40 | 67 | 58 | 46 | 12 | 16 | = 520 |
| % of 97 | 58 | 40 | 38 | 9 | 67 | 9 | 15 | 53 | 41 | 69 | 60 | 47 | 12 | 16 | |
| Rank | 4 | 8 | 9 | 13- | 2 | 13- | 11 | 5 | 7 | 1 | 3 | 6 | 12 | 10 | |

## G and Ĝ

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 517-1 | ĝăb- to look out for? | | | | | | | | | | 10 | | 12 | | | 2 |
| 518-2 | gag- something round (child's language) | | | | | | | | ? | | 10 | 11 | | | | 2 |
| 519-3 | 1. gal- bald, naked | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 520-4 | 2. gal- to call + 616, 617?, 657?, 846 | 1 | 2 | | | 5 | | | | ? | 9 | 10 | 11 | 12 | | 7 |
| 521-5 | 3. gal- to be able | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 522-6 | gan(dh)- vessel | | | | | | | | | 9 | 10 | | | | | 2 |
| 523-7 | gang- to mock, scorn | 1 | | | | 5 | | | 8 | ? | 10 | | 12 | | | 5 |
| 524-8 | gă̄r- to call + 556, 698 | | 2 | 3 | | 5 | | | 8 | 9 | 10 | | | | | 6 |
| 525-9 | garəĝ- dreadful | | | 3 | | 5 | | | | 9 | | 11 | 12 | | | 5 |
| 526-10 | gau- to be glad | | | | | 5 | | | 8 | 9 | | 11 | | 13 | | 5 |
| 527-11 | ĝebh- branch, bough + 528 | | | | | | | | | | 10 | 11 | | | | 2 |
| 528-12 | ĝegh- branch, pale + 527 | | | ? | | | | | | | 10 | 11 | | | | 2 |
| 529-13 | gēi- to bend? + 301, 340 | 1 | ? | ? | | | | | 8 | | 10 | 11 | ? | | | 4 |
| 530-14 | gē(i)- to sing | 1 | 2 | | | | | | | | | 11 | 12 | 13 | | 5 |
| 531-15 | ĝēi- to sprout | | | 3 | | | | | | | 10 | 11 | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 532-16 | geid- to stab, tickle | | | 3 | | | | | | | 10 | | | | | 2 |
| 533-17 | ĝeid- to suck | | | | | 5 | | | | | | 11 | | | | 2 |
| 534-18 | geiĝ- to stab, bite | | 2 | 3 | | | | ? | | 9 | | 11 | | | | 4 |
| 535-19 | ĝeis- gravel(stone) | | | | ? | | | | | | 10 | 11 | | | | 2 |
| 536-20 | 1. gel- to form into a ball | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 537-21 | 2. gel- to envelop | | | | | 5 | | | ? | 9 | 10 | ? | 12 | | | 4 |
| 538-22 | 3. gel(ə)- cold; to freeze | | | | | 5 | | | 8 | | 10 | | ? | | | 3 |
| 539-23 | ĝel- bright | | | 3 | | 5 | | | | ? | 10 | ? | ? | | | 3 |
| 540-24 | gelebh- to scrape + 570 | | | | | 5 | | | | 9 | | | 12 | | | 3 |
| 541-25 | $g_e$li- mouse | 1 | | | | 5 | | | 8 | | | | | | | 3 |
| 542-26 | ĝ($_e$)lōu̯- husband's sister | | | ? | ? | 5 | | | 8 | | | | 12 | | | 3 |
| 543-27 | gem- to grasp | | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 544-28 | ĝembh- to bite + 554 | 1 | 2 | ? | | 5 | | 7 | | | 10 | 11 | 12 | 13 | | 8 |
| 545-29 | ĝem(e)- to marry | 1 | 2 | | | 5 | | | 8 | | | | | | | 4 |
| 546-30 | gen- to press together +867 | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 547-31 | 1. ĝen- to produce | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 12 |
| 548-32 | 2. ĝen- to recognize | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | ? | 11 |
| 549-33 | genebh- plug, pin (IE?) | | | | | | | | | | 10 | | | | | 1 |
| 550-34 | geng- lump | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 551-35 | gengh- to turn | | | | | | | | | | 10 | | 12 | | | 2 |
| 552-36 | 1. ĝenu- knee | 1 | 2 | 3 | | 5 | 6 | | 8 | | 10 | | | 13 | 14 | 9 |
| 553-37 | 2. ĝenu- chin(bone) | 1 | 2 | ? | 4 | 5 | | | 8 | 9 | 10 | 11 | | 13 | | 9 |
| 554-38 | ĝep(h)- jaw, mouth; to eat + 544 | | 2 | | | | | | | 9 | 10 | 11 | 12 | | | 5 |
| 555-39 | 1. ger- to collect | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 556-40 | 2. ger- (onomat.) to call hoarsely + 524, 584? | 1 | | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 557-41 | 3. ger- to turn | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 558-42 | 4. ger- to grow; awaken | 1 | 2 | | | 5 | | 7 | | | 10 | | | | | 5 |
| 559-43 | ĝer- rotten | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 560-44 | gerebh- to slit + 577, 578 | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 561-45 | ĝers- to turn | | | 3 | | 5 | | | | 9 | 10 | | | | | 4 |
| 562-46 | gēu- to bend + 575 | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 11 |
| 563-47 | ĝeu- to promote, hurry | 1 | 2 | | | | | | | | | | 12 | | | 3 |
| 564-48 | g(e)u-lo- glowing coal | | | 3 | | | | | | 9 | 10 | | | | | 3 |
| 565-49 | ĝeus- to taste, enjoy | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | | | | | 7 |
| 566-50 | g(i̯)eu- to chew | | 2 | 3 | | | | | | | 10 | 11 | 12 | 13 | | 6 |
| 567-51 | glag- milk | | | | | 5 | | | 8 | | | | | | | 2 |
| 568-52 | gleĝ- soft, tender | | | | | | | | | | 10 | 11 | 12 | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 569-53 | ĝlei- to run at, attack | 1 | 2 | | | | | | | | | | | | | 2 |
| 570-54 | gleubh- to cut + 540 | | | | | 5 | | | 8 | | 10 | 11 | | | | 4 |
| 571-55 | glogh- barb, tip | | | | | 5 | | | | | ? | | 12 | | | 2 |
| 572-56 | 1. gol- to lie, camp | | | 3 | | 5 | | | | | 10 | 11 | | | | 4 |
| 573-57 | 2. gol- twig, bough | | | 3 | | | | | | | | | 12 | | | 2 |
| 574-58 | gŏu- to call | 1 | | | | 5 | | | ? | | 10 | 11 | 12 | | | 5 |
| 575-59 | gou̯ə- hand + 562 | | 2 | | | 5 | | | | | | 11 | 12 | | | 4 |
| 576-60 | gras- to eat (of animals) | 1 | | | | 5 | | | 8 | | | | | | | 3 |
| 577-61 | grēb(h)o-s white beech + 560 | | | | 4 | | 6 | | 8 | | | 11 | 12 | | | 5 |
| 578-62 | gred- to scratch + 560 | | | | | | | 7 | | | 10 | | | | | 2 |
| 579-63 | grem- to be damp | | | | | | | | 8 | | 10 | 11 | 12 | | | 4 |
| 580-64 | 1. greus- to crumble | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 581-65 | 2. greus- to burn, smoulder | | | | | 5 | | | | | | 11 | | | | 2 |
| 582-66 | greut- to press, crush | | | | | | | | | 9 | 10 | | | | | 2 |
| 583-67 | grōd- hail? + 633, 670, 672, 674, 677 | | | 3 | | | | | 8 | | | 11 | 12 | | | 4 |
| 584-68 | gru- to grunt + 556? | | | | | 5 | | | 8 | | 10 | | | | | 3 |

Totals for G and $\hat{G}$ - 68

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 23 | 20 | 19 | 4 | 40 | 3 | 8 | 28 | 25 | 48 | 40 | 36 | 7 | 2 | = 303 |
| % of 68 | 34 | 29 | 28 | 6 | 59 | 4 | 12 | 41 | 37 | 71 | 59 | 53 | 10 | 3 | |
| Rank | 7 | 8 | 9 | 12 | 2- | 13 | 10 | 5 | 6 | 1 | 2- | 4 | 11 | 14 | |

## Gh - $\hat{G}$h

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 585-1 | gha gha to chatter (e.g of geese) + 595, 596, 604, 605 | | | | | | | 7 | | 9 | 10 | 11 | 12 | | | 5 |
| 586-2 | ghabh- to seize | 1 | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 587-3 | ghabh(o)lo- fork of branch | | | | | | 6 | | | 9 | 10 | | | | | 3 |
| 588-4 | $\hat{g}h\bar{a}g^{u}\hat{h}$- young of animal | | 2 | | | | | 7 | | | | | | | | 2 |
| 589-5 | ghaido- he-goat | | | | | | | | 8 | | 10 | | | | | 2 |
| 590-6 | ghais- to remain fixed | | | | | | | | 8 | | | 11 | | | | 2 |
| 591-7 | $\hat{g}$haiso- stick, staff | 1 | | | | 5 | | | | 9 | 10 | | | | | 4 |
| 592-8 | ghait-ā- curly hair | | 2 | | 4 | 5 | | | | 9 | | | | | | 4 |
| 593-9 | $\hat{g}$hal- harm, crime | | | | | | | | | 9 | 10 | 11 | ? | | ? | 3 |
| 594-10 | $\hat{g}$halg(h)- pliable twig | | | 3 | | | | | | | 10 | 11 | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 595-11 | ĝhan- to yawn + 585 | | | | | 5 | | | | | 10 | | | | | 2 |
| 596-12 | ĝhan-s- goose + 585 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 597-13 | 1. ĝhasto- rod, pole | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| x | 2. ĝhasto- + 649 | | | | | | | | | | | | | | | |
| 598-14 | ĝhau- to call | 1 | 2 | 3 | | 5 | | | | 9 | 10 | 11 | 12 | | | 8 |
| 599-15 | ghau̯o- false | | | | | | | | 8 | 9 | | | | | | 2 |
| 600-16 | ĝhdem earth, floor | 1 | 2 | | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 601-17 | ĝhdié̯s yesterday | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | | | | | 7 |
| 602-18 | ĝhdū- fish | | | 3 | | 5 | | | | | | 11 | | | | 3 |
| 603-19 | ghe- (emphatic particle) + 658, 1920 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | | 11 | 12 | 13 | 14 | 11 |
| 604-20 | 1. ĝhē- to be empty, leave + 585 | 1 | 2 | | | 5 | | | 8 | | 10 | | | | | 5 |
| 605-21 | 2. ĝhē- to yawn + 585 | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 606-22 | ghebh-el- gable, head | | | | 4 | 5 | | | | | 10 | | | 13 | | 4 |
| 607-23 | ghed- to shit; hole | 1 | 2 | 3 | 4 | 5 | | 7 | | | 10 | | | | | 7 |
| 608-24 | ghedh- to unite | 1 | | | | | | | | | 10 | ? | 12 | 13 | | 4 |
| 609-25 | ghegh- to crook, bend | | | 3 | | | | | | | 10 | 11 | | | | 3 |
| 610-26 | ĝ(h)eĝh- polecat? | 1 | | | | | | | | | | 11 | | | | 2 |
| 611-27 | 1. ĝhei- to drive; wound + 652 | 1 | 2 | 3 | | | | | | 9 | 10 | 11 | | | | 6 |
| 612-28 | 2. ĝhei- snow, winter | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 12 |
| 613-29 | gheidh- to desire + 614 | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 614-30 | gheiĝh- to desire + 613 | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 615-31 | gheis to be roused | 1 | 2 | | | | | | | | 10 | | ? | | | 3 |
| 616-32 | ghel- to call + 520 | 1 | | | | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 617-33 | 1. ĝhel- to shine, yellow, green, grey, blue +520 | 1 | 2 | | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 618-34 | 2. ĝhel- to cut? | 1 | | 3 | | 5 | | | | 9 | 10 | 11 | | | | 6 |
| 619-35 | ĝhēlā wine? | 1 | | | 4 | 5 | | | | | | | | | | 3 |
| 620-36 | gheldh- to desire | 1 | 2 | | | | | | | | | | 12 | | | 3 |
| 621-37 | ghel(ĕ)ĝh- (some form of) metal | | | | | ? | | | | | | 11 | 12 | | | 2 |
| 622-38 | ghel̥d- ice | | 2 | | | 5 | | | | | | | 12 | | | 3 |
| 623-39 | ghelĝh- gland | | | 3 | | | | | | | | 11 | 12 | | | 3 |
| 624-40 | ghel-ond- intestines, stomach | | | | | 5 | | | | | | | 12 | | | 2 |
| 625-41 | ghel-ōu- turtle, tortoise | | | | | 5 | | | | | | | 12 | | | 2 |
| 626-42 | ghel-tō- to be worth | | | | | | | | | | 10 | | 12 | | | 2 |
| 627-43 | ghelunā jaw | | | 3 | | 5 | | | | | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 628-44 | ghen- to gnaw to pieces | | 2 | | | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 629-45 | ghend- to grasp, seize | | | | | 5 | | 7 | 8 | 9 | 10 | | ? | | | 5 |
| 630-46 | ghendh- abscess | | | | | 5 | | | | | 10 | | | | | 2 |
| 631-47 | ĝhengh- to stride | 1 | 2 | | | 5 | | | | ? | 10 | 11 | | | | 5 |
| 632-48 | 1. gher- (onomat.) + 656 | 1 | | | | | | | 8 | | 10 | | 12 | | | 4 |
| 633-49 | 2. gher- to stroke hard, rub + 583 | 1 | | | | 5 | | | 8 | | | 11 | 12 | | | 5 |
| 634-50 | 3. gher- to jut out + 644, 666 | | | | | 5 | | 7 | | 9 | 10 | | 12 | | | 5 |
| 635-51 | 1. ĝher- to desire | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | | | 6 |
| 636-52 | 2. ĝher- to scratch, slit + 646 | | | | | 5 | | | | | | 11 | | | | 2 |
| 637-53 | 3. ĝher- to beam | | | | | | | | ? | 9 | 10 | 11 | 12 | | | 4 |
| 638-54 | 4. ĝher- to grip, seize + 641, 649 | 1 | | | | 5 | | | 8 | 9 | ? | ? | | | 14 | 5 |
| 639-55 | 5. ĝher- bowel | 1 | | | | 5 | | | 8 | | 10 | 11 | | | | 5 |
| 640-56 | 6. ĝher- short, small | 1 | 2 | | | 5 | | | | 9 | | | | | | 4 |
| x | 7. ĝher- + 644 | | | | | | | | | | | | | | | |
| 641-57 | ĝherdh- to embrace, encompass + 638 | 1 | 2 | | 4 | 5 | | 7 | ? | | 10 | 11 | 12 | 13 | 14 | 10 |
| 642-58 | 1. ghers- revulsion | | 2 | 3 | | | | | | ? | 10 | 11 | | | | 4 |
| 643-59 | 2. ghers- (in designations of weeds) | | | | | | | | | | 10 | 11 | | | | 2 |
| 644-60 | ĝhers- to stare + 634 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | | | | 8 |
| 645-61 | gherto- milk, butter | 1 | 2 | | | | | | | 9 | | | | | | 3 |
| 646-62 | ĝherzd(h)- the prickly stuff i.e. barley + 636 | | | | ? | 5 | | 7 | 8 | | 10 | ? | | | | 4 |
| 647-63 | ĝhéslo- a thousand | 1 | 2 | | | 5 | | | ? | | | | | | | 3 |
| 648-64 | 1. ĝhesor- hand? | | | 3 | | 5 | | | ? | | | | | 13 | 14 | 4 |
| 649-65 | 2. ĝhesto- hand, arm + 638 | 1 | 2 | | | | | | 8 | | | 11 | | | | 4 |
| 650-66 | 1. ĝheu- to pour | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 | 10 | 11 | | | | 9 |
| 651-67 | 2. ĝheu- to disappear, die | | | | | | | | | 9 | 10 | 11 | | | | 3 |
| 652-68 | ĝhēu- to yawn + 611 | ? | | ? | | 5 | | | | | 10 | 11 | | | | 3 |
| 653-69 | gheub(h)- to bend | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 654-70 | gheuĝh- to do sth. secretly | 1 | 2 | | | | | | | | 10 | 11 | | | | 4 |
| 655-71 | gheu̯eiā̯ pit, hollow | | | | | 5 | | | 8 | | | | | | | 2 |
| x | ghlādh- + 617 | | | | | | | | | | | | | | | |
| 656-72 | ĝhlād- to resound, call + 632 | 1 | 2 | | | 5 | | | | 9 | | | | | | 4 |
| 657-73 | ghleu- to be happy + 520 | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 658-74 | ĝhō behind + 603 | | | 3 | | | | | | | | 11 | 12 | | | 3 |
| 659-75 | ghoilo-s frothing up | | | | | | | | | ? | 10 | 11 | 12 | | | 3 |
| 660-76 | ghom- stall | | | 3 | | | | | | | 10 | | | | | 2 |
| 661-77 | ghŏs- to eat | 1 | 2 | | | | | | ? | | | ? | | | | 2 |
| 662-78 | ghosti-s stranger, guest | | | | ? | ? | | ? | 8 | | 10 | | 12 | | | 3 |
| 663-79 | ghoų̯(ē)- to pay attention to, be aware of | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 664-80 | ghou-ro-s | 1 | | | | | | | | | 10 | | 12 | | | 3 |
| 665-81 | ghous- to sound, hear | 1 | 2 | | | | | | ? | | | | | | | 2 |
| 666-82 | (ghrē-) to grow, become green + 634 | | | | | | | | | | 10 | | | | | 1 |
| 667-83 | 1. ghrebh- to grasp + 668, 671 | 1 | 2 | | | | | | | | 10 | 11 | 12 | | | 5 |
| 668-84 | 2. ghrebh- to scratch, dig + 667 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 669-85 | ghredh- to stride | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 670-86 | ghrēi- to stroke over + 583 | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 671-87 | ghreib- to grip + 667 | | | | | | | | | | 10 | 11 | | | | 2 |
| 672-88 | 1. ghrem- to rub over sharply + 583 | | | | | | | | | | 10 | 11 | | | | 2 |
| 673-89 | 2. ghrem- to resound | | | 2 | | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 674-90 | ghren- to streak past + 583 | | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 6 |
| 675-91 | ghrendh- beam | | | | | | | | 8 | | 10 | 11 | 12 | | | 4 |
| 676-92 | 1. ghrēu- to collapse | | | | | 5 | | | 8 | | | 11 | 12 | | | 4 |
| 677-93 | 2. ghrēu- to rub past sharply + 583 | | | | | 5 | | | ? | 9 | 10 | 11 | 12 | | | 5 |
| 678-94 | ghroud- (concerning curved parts of the body) | | | | | | | | | 9 | 10 | | | | | 2 |

Totals for Gh and Ĝh - 94

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 41 | 33 | 17 | 8 | 48 | 3 | 13 | 30 | 32 | 67 | 51 | 40 | 6 | 6 | = 395 |
| % of 94 | 44 | 35 | 18 | 9 | 51 | 3 | 14 | 32 | 34 | 71 | 54 | 43 | 6 | 6 | |
| Rank | 4 | 6 | 9 | 11 | 3 | 14 | 10 | 8 | 7 | 1 | 2 | 5 | 12- | 12- | |

## Gų̯ - Ĝų̯ - G$^{u}_{\wedge}$

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 679-1 | g$^{u}_{\wedge}$ā- to go, come | 1 | 2 | 3 | | 5 | | 7 | 8 | ? | 10 | 11 | | 13 | | 9 |
| 680-2 | g$^{u}_{\wedge}$ă̆dh- to dive | 1 | 2 | | | 5 | | | | 9 | | | | | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 681-3 | 1. $g^{u}_{\breve{}}\bar{e}bh$- to dive in | ? | ? | | 4 | 5 | | | | | 10 | | | | | 3 |
| 682-4 | 2. $g^{u}_{\breve{}}\bar{e}b(h)$- slimy; toad | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 683-5 | $g^{u}_{\breve{}}edh$- to thrust, injure | 1 | 2 | | | 5 | | | | | 10 | 11 | | | | 5 |
| 684-6 | 1. $g^{u}_{\breve{}}ei$- to complain | | | | | | | | | | 10 | ? | | | | 1 |
| 685-7 | 2. $g^{u}_{\breve{}}ei$- to thrust together? | | | | | | | | 8 | | 10 | | | | | 2 |
| 686-8 | 3. $g^{u}_{\breve{}}ei̯$- to live | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 687-9 | $g^{u}_{\breve{}}\bar{e}i$ skin, hide? | 1 | | | | | | | | 9 | | | | | | 2 |
| 688-10 | $g^{u}_{\breve{}}eid(h)$- mud | | | | | 5 | | | | | 10 | | 12 | | | 3 |
| 689-11 | $g^{u}_{\breve{}}ei̯ə$- to overpower | 1 | 2 | | | 5 | | | | | 10 | | | | | 4 |
| 690-12 | 1. $g^{u}_{\breve{}}el$- to stab | | | 3 | | 5 | | 7 | ? | 9 | 10 | 11 | 12 | | | 7 |
| 691-13 | 2. $g^{u}_{\breve{}}el$- to drip down | 1 | 2 | | | 5 | | | | ? | 10 | | | 13 | | 5 |
| 692-14 | 3. $g^{u}_{\breve{}}el$- (originally) oak? | | | 3 | | 5 | | | 8 | | | 11 | 12 | | | 5 |
| 693-15 | $g^{u}_{\breve{}}elbh$- uterus, womb | 1 | 2 | | | 5 | | | | | 10 | | | | | 4 |
| x | $g^{u}_{\breve{}}em$- +679 | | | | | | | | | | | | | | | |
| 694-16 | $g^{u}_{\breve{}}\breve{e}nā$ woman, wife | 1 | 2 | 3 | | 5 | ? | 7 | | 9 | 10 | 11 | 12 | 13 | | 10 |
| 695-17 | 1. $g^{u}_{\breve{}}er$- to swallow | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 696-18 | 2. $g^{u}_{\breve{}}er$- heavy | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 9 |
| 697-19 | 3. $g^{u}_{\breve{}}er$- mountain + 717 | 1 | 2 | | | 5 | | 7 | | | | 11 | 12 | | | 6 |
| 698-20 | 4. $g^{u}_{\breve{}}er(ə)$- to raise one's voice + 524 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 699-21 | $\hat{g}\underset{\cdot}{u}er$- to shine; be hot | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 700-22 | $g^{u}_{\breve{}}eru$- pale, spit | | 2 | | | ? | | | 8 | 9 | 10 | | | | | 4 |
| 701-23 | $g^{u}_{\breve{}}es$- to extinguish | 1 | | | | 5 | | | | | ? | 11 | 12 | | | 4 |
| 702-24 | $g\underset{\cdot}{u}es$- branches | 1 | | | | 5 | | 7 | 8 | | 10 | | 12 | | | 6 |
| 703-25 | 1. $g^{u}_{\breve{}}et$- resin | 1 | | | | | | | 8 | 9 | 10 | | | | | 4 |
| 704-26 | 2. $g^{u}_{\breve{}}et$- to talk | 1 | 2 | 3 | | | | | | | 10 | | | | | 4 |
| 705-27 | $g\underset{\cdot}{u}et$- swelling + 562 | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 706-28 | $g^{u}_{\breve{}}i̯i̯ā$ sinew | 1 | 2 | | | 5 | | | | | | ? | ? | | | 3 |
| 707-29 | $g^{u}_{\breve{}}is$-ti-s finger? + 352 | | | | | | | | | 9 | 10 | | | | | 2 |
| 708-30 | $g^{u}_{\breve{}}iu$- resin | | | 3 | | | | | | 9 | | | 12 | | | 3 |
| 709-31 | $g^{u}_{\breve{}}l̥tur(os)$ vulture | | | | | 5 | | | 8 | | | | | | | 2 |
| 710-32 | $g^{u}_{\breve{}}or$-$g^{u}_{\breve{}}(or)o$- dirt | | | 3 | | 5 | | | | | | | | | | 2 |
| 711-33 | $g^{u}_{\breve{}}ou$- bullock, ox, cow | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 712-34 | $g^{u}_{\breve{}}\bar{o}u$- dung | 1 | 2 | 3 | 4 | | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 713-35 | $g\underset{\cdot}{u}ozd(h)$- nail, penis | | | | | | | | | 9 | | | 12 | | | 2 |
| 714-36 | $g^{u}_{\breve{}}rebh$- fruit of the body | | | | | 5 | | | | 9 | | | 12 | | | 3 |
| 715-37 | $g^{u}_{\breve{}}reig$- to sleep? | | | | | 5 | | | | | | | 12 | | | 2 |
| 716-38 | $g^{u}_{\breve{}}rendh$- to swell | | | | | 5 | | | 8 | | | | 12 | | | 3 |
| 717-39 | $g^{u}_{\breve{}}retso$- thick, big? + 697 | | | | | | | | 8 | 9 | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 718-40 | $g_{\breve{}}^{u}$rēu$\underline{g}$h- to grind one's teeth | | | | | 5 | | | | 9 | | 11 | 12 | | | 4 |

Totals for $G\underline{u}$ - $\hat{G}\underline{u}$ - $G_{\breve{}}^{u}$ - 40

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 21 | 17 | 11 | 2 | 26 | 0 | 8 | 16 | 19 | 25 | 16 | 20 | 6 | 0 | = 187 |
| % of 40 | 53 | 43 | 28 | 5 | 65 | 0 | 20 | 40 | 48 | 63 | 40 | 50 | 15 | 0 | |
| Rank | 3 | 6 | 9 | 12 | 1 | 13- | 10 | 7- | 5 | 2 | 7- | 4 | 11 | 13- | |

Ghu - $G_{\breve{}}^{u}$h

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 719-1 | $g_{\breve{}}^{u}$hdei(ə-) to perish | 1 | 2 | | | 5 | | | 8 | | | | | | | 4 |
| 720-2 | $g_{\breve{}}^{u}$hder- to run, flow | 1 | 2 | 3 | | 5 | | | | | | | | | | 4 |
| 721-3 | $g_{\breve{}}^{u}$hedh- to ask for | | 2 | | | 5 | | | | 9 | ? | 11 | 12 | | | 5 |
| 722-4 | (*$g_{\breve{}}^{u}$hēi-) bright | | | | | 5 | | | | | | 11 | | | | 2 |
| 723-5 | $g_{\breve{}}^{u}$heiə- vein, tendon | | | 3 | | | | | 8 | 9 | | 11 | 12 | | | 5 |
| 724-6 | $g_{\breve{}}^{u}$hel- to want | | | | | 5 | | | | | 10 | | 12 | | | 3 |
| 725-7 | $\hat{g}$hu̯el- to become bent | 1 | 2 | | | 5 | | | 8 | | | 11 | 12 | | | 6 |
| 726-8 | $\hat{g}$hu̯elg- to look at? | | | | | 5 | | | | | | 11 | | | | 2 |
| 727-9 | $g_{\breve{}}^{u}$hemb- to jump happily | | | | | 5 | | | | | 10 | | | | | 2 |
| 728-10 | $\hat{g}$hu̯en- to resound | | | 3 | | | | 7 | | | | 11 | 12 | | | 4 |
| 729-11 | 1. $g_{\breve{}}^{u}$hen- to swell | 1 | 2 | 3 | | 5 | | | | | | 11 | 12 | | | 6 |
| 730-12 | 2. $g_{\breve{}}^{u}$hen-(ə)- to hit | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 11 |
| 731-13 | $\hat{g}$hu̯er- wild animal | | | | | 5 | | | 8 | | | 11 | 12 | | | 4 |
| 732-14 | $g_{\breve{}}^{u}$her- hot, warm | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 12 |
| 733-15 | $\hat{g}$hu̯oi$g_{\breve{}}^{u}$- to shine | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 734-16 | $\hat{g}$hu̯ō$k_{\breve{}}^{u}$- to shimmer | | | | | 5 | | | 8 | | | 11 | | | | 3 |
| 735-17 | $g_{\breve{}}^{u}$hrē- to smell | 1 | | | | 5 | | | | | | | | 13 | | 3 |
| 736-18 | $g_{\breve{}}^{u}$hren- the diaphragm as the seat of everything intellectual | | | | | 5 | | | | | 10 | | | | | 2 |

Totals for Ghu - $G_{\breve{}}^{u}$h - 18

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 1 | 16 | 1 | 3 | 7 | 4 | 5 | 12 | 10 | 1 | 1 | = 81 |
| % of 18 | 39 | 39 | 33 | 6 | 89 | 6 | 17 | 39 | 22 | 28 | 67 | 56 | 6 | 6 | |
| Rank | 4- | 4- | 7- | 11- | 1 | 11- | 10 | 4- | 9 | 8 | 2 | 3 | 11- | 11- | |

## H (see also Kha)

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 737-1 | hă̆ ha! ah! (exclamation of astonishment) | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 738-2 | ha ha ha ha (laughter) | | | | | 5 | | | 8 | | 10 | | 12 | | | 5 |

Totals for H - 2

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | = 9 |
| % of 2 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 100 | 0 | 100 | 0 | 50 | 0 | 0 | |
| Rank | 1- | 6- | 6- | 6- | 1- | 6- | 6- | 1- | 6- | 1- | 6- | 5 | 6- | 6- | |

## I

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 739-1 | ī̆l- mud | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 740-2 | ī̆li- groin, intestines, genital organs? | | | | | 5 | | | 8 | ? | | | ? | | | 2 |

Totals for I - 2

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | = 5 |
| % of 2 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 50 | 0 | 0 | 50 | 50 | 0 | 0 | |
| Rank | 5- | 5- | 5- | 5- | 1 | 5- | 5- | 2- | 5- | 5- | 2- | 2- | 5- | 5- | |

## I̯

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 741-1 | i̯ā- to be excited | 1 | 2 | 3 | | 5 | | | | 9 | | | 12 | | | 6 |
| x | i̯a + 435 | | | | | | | | | | | | | | | |
| 742-2 | i̯ag- to venerate | 1 | 2 | | | 5 | | | | | | | | 13 | | 4 |
| 743-3 | i̯agh- to hunt, desire | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| x | i̯āi- + 422 | | | | | | | | | | | | | | | |
| 744-4 | i̯ă̆m to dig | | | | | 5 | | | | | | | 12 | | | 2 |
| x | i̯am- + 422 | | | | | | | | | | | | | | | |
| 745-5 | i̯ē- to throw | | | | ? | 5 | | | 8 | | | | | 13 | 14 | 4 |
| x | i̯ebh- + 439 | | | | | | | | | | | | | | | |
| 746-6 | i̯eg- ice | | | | | | | | | 9 | 10 | | | | ? | 2 |
| 747-7 | i̯egu̯ā strength (of youth) | | | | | 5 | | | ? | | | 11 | ? | | | 2 |
| 748-8 | i̯ek- to speak + 749 | 1 | | | | | | | 8 | 9 | 10 | 11 | | 13 | | 6 |
| 749-9 | i̯ēk- to heal? + 748 | | | | | 5 | | | | 9 | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 750-10 | i̯ek$^{u}_{o}$ɣ(t)- liver | 1 | 2 | ? | | 5 | | | 8 | ? | | 11 | ? | | | 5 |
| 751-11 | i̯ēlo- unripe | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 752-12 | i̯em- to hold | 1 | 2 | | | ? | | | 8 | 9 | ? | | | | | 4 |
| 753-13 | i̯énəter- sister-in-law | 1 | | 3 | 4 | 5 | | | 8 | | | 11 | 12 | | | 7 |
| x | i̯e-ro- 435 | | | | | | | | | | | | | | | |
| 754-14 | i̯es- to bubble, well up | 1 | 2 | | | 5 | | | | 9 | 10 | | | 13 | | 6 |
| 755-15 | i̯et- to let fly at sth. | 1 | 2 | | | | | | | 9 | | | | ? | | 3 |
| 756-16 | 1. i̯eu- to mix, mingle | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 757-17 | 2. i̯eu- to tie up + 763 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 11 |
| 758-18 | 3. i̯eu- young | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | | | | 6 |
| x | 4. i̯eu- 757 | | | | | | | | | | | | | | | |
| 759-19 | i̯eu-dh- to be in violent motion | 1 | 2 | | | 5 | | | 8 | 9 | | 11 | 12 | 13 | | 8 |
| 760-20 | i̯euĝ- to excite, rouse | | 2 | | | | | | | | 10 | | | 13 | | 3 |
| 761-21 | i̯eu-ni- right place (way) | 1 | 2 | | | | | | | 9 | | | | | | 3 |
| 762-22 | i̯eu̯o- grain (especially barley) | 1 | 2 | | | 5 | | | | | | 11 | | | | 4 |
| 763-23 | i̯eu̯os- statute, rule + 757 | 1 | 2 | | | | | | 8 | 9 | | | | | | 4 |
| x | i̯o- + 422 | | | | | | | | | | | | | | | |
| 764-24 | i̯oi-ni- reed | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 765-25 | i̯ork- animal in the deer family | | | | | 5 | | | | 9 | | | | | | 2 |
| x | i̯ou- + 422 | | | | | | | | | | | | | | | |
| 766-26 | i̯ō(u)s- to gird | | 2 | | | 5 | | 7 | | | | 11 | 12 | | | 5 |
| 767-27 | 1. i̯u- her | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 768-28 | 2. i̯ū- (exclamation of joy) | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |

Totals for i̯ - 28

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 17 | 16 | 4 | 1 | 17 | 0 | 3 | 13 | 18 | 11 | 13 | 10 | 8 | 3 | = 134 |
| % of 28 | 61 | 57 | 14 | 4 | 61 | 0 | 11 | 46 | 64 | 39 | 46 | 36 | 29 | 11 | |
| Rank | 2- | 4 | 10 | 13 | 2- | 14 | 11- | 5- | 1 | 7 | 5- | 8 | 9 | 11- | |

K - $\overset{\circ}{K}$

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769-1 | kā- to like, desire | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | | 13 | | 7 |
| 770-2 | kă̄ (particle) well! | 1 | 2 | | | 5 | | | | | | 11 | 12 | | | 5 |
| 771-3 | kă̄d- to damage + 775 | 1 | | | | 5 | | | | | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 772-4 | kadh- to protect, | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 773-5 | 1. k̂ad- to fall | 1 | | 3 | | | | | 8 | 9 | | | | | | 4 |
| 774-6 | 2. k̂ad- to sparkle | 1 | | | | 5 | | | | ? | | | | | | 2 |
| 775-7 | k̂ād- spiritual depression | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | 13 | | 7 |
| 776-8 | kaĝo- goat | | | | | | | | | | 10 | | 12 | | | 2 |
| 777-9 | kagh- to grasp | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 778-10 | kaghlo- pebble | | | | | 5 | | | | | 10 | | | | | 2 |
| 779-11 | 1. kai- alone + 782, 784 | 1 | | | | | | | 8 | | 10 | ? | | | | 3 |
| 780-12 | 2. kai- and? | | | | | 5 | | | | | | ? | ? | | | 1 |
| 781-13 | 3. kăi- heat | | | | | | | | | | 10 | 11 | | | | 2 |
| x | 4. kăi-d- + 1601 | | | | | | | | | | | | | | | |
| 782-14 | kai-ko one-eyed + 779 | 1 | | | | 5 | | | 8 | 9 | | 11 | | | | 5 |
| 783-15 | kaik̂- to scratch, comb + 785 | 1 | | | | | | | | | | 11 | 12 | | | 3 |
| 784-16 | kai-lo- whole, well + 779 | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 785-17 | kais- hair + 783 | 1 | | | | | | | 8 | | | | | ? | | 2 |
| x | kāi-t + 1601 | | | | | | | | | | | | | | | |
| 786-18 | kaito- wood, forest | | | | | | | | ? | 9 | 10 | | | | | 2 |
| 787-19 | kaiu̯r̥-t cleft, hollow | 1 | | | | 5 | | | | | | | | | | 2 |
| 788-20 | kakka to defecate (child's lang.) | | | 3 | 4 | 5 | | | 8 | 9 | 10 | | 12 | | | 7 |
| 789-21 | kāk- cracking sound | 1 | | | | | | | | | | 11 | | | | 2 |
| 790-22 | k̂ak- to become thin | | 2 | | | | | | | | 10 | 11 | | | | 3 |
| 791-23 | k̂ak- to enable, help | 1 | 2 | | | | | | | 9 | ? | ? | | 13 | | 4 |
| 792-24 | 1. k̂āk- to jump | | | | 4 | 5 | | | | 9 | 10 | 11 | | | | 5 |
| 793-25 | 2. k̂āk- branch + 826, 876 | 1 | | 3 | | | | ? | | 9 | 10 | 11 | 12 | | | 6 |
| 794-26 | 1. kal- hard + 842, 843, 938?, 1556, 1605, 1607, 1610, 1617, 1635 | 1 | | | | | | 7 | 8 | 9 | | | 12 | | | 5 |
| 795-27 | 2. kal- beautiful, healthy | 1 | | | | 5 | | | | | 10 | | | | | 3 |
| 796-28 | 3. kăl- to be caught | 1 | | | | | | | | | | 11 | | | | 2 |
| 797-29 | kalni narrow passage | | | | | | | | 8 | | | | 12 | | | 2 |
| 798-30 | kam-er- to vault, bend + 799 | 1 | 2 | | | 5 | | | 8 | | | | | | | 4 |
| x | kăm- + 769 | | | | | | | | | | | | | | | |
| x | kamb + 1604 | | | | | | | | | | | | | | | |
| 799-31 | kam-p- to bend + 798 | 1 | ? | | | 5 | | | 8 | ? | 10 | 11 | ? | | | 5 |
| 800-32 | kan- to sing | | | | | 5 | | | 8 | 9 | 10 | | ? | 13 | | 5 |
| 801-33 | kand- to shine | 1 | | | | 5 | | 7 | 8 | 9 | | | | | | 5 |
| x | kank- + 792 | | | | | | | | | | | | | | | |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802-34 | kan-tho- corner | | | | | 5 | | | 8 | 9 | | | 12 | | | 4 |
| 803-35 | kap- to grasp + 1604 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 8 |
| 804-36 | kāp- piece of land | | | | | 5 | | | | | 10 | | | | | 2 |
| 805-37 | kăpo- swamped by water | 1 | | | | | | | | | | 11 | | | | 2 |
| 806-38 | kapro- he-goat | 1 | | | | 5 | | | 8 | 9 | 10 | | | | | 5 |
| 807-39 | kap-ut head | 1 | 2 | | | 5 | | | 8 | | 10 | | | | | 5 |
| 808-40 | kăpho- hoof | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| 809-41 | 1. kar- to revile | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | ? | | 6 |
| 810-42 | 2. kar- to praise aloud + 880 | 1 | | | | 5 | | | | | 10 | 11 | | | | 4 |
| 811-43 | 3. kar- (redupl.) hard | 1 | | | | 5 | ? | | 8 | 9 | 10 | | 12 | | | 6 |
| 812-44 | kār- wax | | | | | 5 | | | ? | | | 11 | 12 | | | 3 |
| 813-45 | kars- to scratch | 1 | | | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 814-46 | ḱas- grey | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | | | 6 |
| 815-47 | ḱas- to indicate the way | 1 | 2 | 3 | | | | | | | | | | | | 3 |
| 816-48 | 1. kat- to plait | | | | | | | | 8 | 9 | 10 | | 12 | | | 4 |
| 817-49 | 2. kat- to have young | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 818-50 | ḱat- to fight, struggle | 1 | | ? | ? | | | | | 9 | 10 | | 12 | | | 4 |
| 819-51 | kau- to humble | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 820-52 | kāu- to hew, hit | | | | | | | | 8 | | 10 | 11 | 12 | 13 | | 5 |
| 821-53 | kău- to howl | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 822-54 | kau(ə)lā swelling | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 823-55 | kau-l- hollow + 909 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | | | | 6 |
| 824-56 | kaus- to draw lots? | | | | | 5 | | | | | | | 12 | | | 2 |
| x | ḱe- + 946 | | | | | | | | | | | | | | | |
| 825-57 | ked- to smoke | 1 | | | | 5 | | | | | | 11 | 12 | | | 4 |
| 826-58 | keg- peg + 793 | | 2 | | | | | | | 9 | 10 | 11 | 12 | | | 5 |
| 827-59 | kēi- to set in motion | 1 | 2 | 3 | | 5 | | 7 | 8 | ? | 10 | 11 | 12 | | | 9 |
| 828-60 | 1. ḱei- to lie, camp | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 10 |
| 829-61 | 2. ḱei- dark brown, grey + 900 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 830-62 | ḱē(i)- to sharpen | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | | | | 7 |
| 831-63 | ḱēi-bh- fast, violent + 833 | 1 | | | | | | | | | 10 | | | | | 2 |
| 832-64 | keid- to fall | | | | | | | | | 9 | 10 | | | | | 2 |
| 833-65 | ḱēi-gh- fast, violent + 831 | 1 | | | | | | | | | 10 | | 12 | | | 3 |
| 834-66 | ḱeip- to slant, slope | 1 | 2 | | | | | | | | | 11 | | | | 3 |
| 835-67 | ḱeipo- stake + 794 | 1 | | | | | | 7 | 8 | | | | | | | 3 |
| 836-68 | keis- arm, shin? | 1 | | | | | | | | | 10 | 11 | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 837-69 | keḱ- weasel? | 1 | | | | | | | | | | 11 | | | | 2 |
| 838-70 | keku- hammer-shaped stick | | 2 | | | | | | | | | 11 | | | | 2 |
| 839-71 | keko- green fodder | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 840-72 | ḱek$^{u}$- dung + 788 | 1 | | | | 5 | | | | 9 | | 11 | | | | 4 |
| 841-73 | 1. kel- to rage, tower up | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 842-74 | 2. kel- to stab + 794 | 1 | | | | | | 7 | | 9 | 10 | | 12 | | | 5 |
| 843-75 | 3. kel- to hit, hew + 794 | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 844-76 | 4. kel- bright and dark spots + 881, 901, 902 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 845-77 | 5. kel- to drive + 854 | 1 | | | | 5 | | 7 | 8 | | 10 | | | | | 5 |
| 846-78 | 6. kel- to call + 520 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 8 |
| 847-79 | 7. kel- beaker | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| x | 7. (better 8.) + 1610 | | | | | | | | | | | | | | | |
| x | 8. (better 9.) + 1611 | | | | | | | | | | | | | | | |
| x | 9. (better 10.) + 1612 | | | | | | | | | | | | | | | |
| x | 10. (better 11.) + 1613 | | | | | | | | | | | | | | | |
| 848-80 | kēl- to dumbfound | | | | | 5 | | | 8 | | 10 | | | | | 3 |
| 849-81 | 1. ḱel- cold, warm | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 850-82 | 2. ḱel- to bow, incline + 931 | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 851-83 | 3. ḱel- thin shaft | 1 | | ? | | 5 | | | | 9 | 10 | 11 | | | | 5 |
| 852-84 | 4. ḱel- to hide + 937 | 1 | | | | 5 | | | 8 | 9 | 10 | ? | ? | | | 5 |
| 853-85 | ḱelb- to help | | | | | | | | | | 10 | 11 | | | | 2 |
| 854-86 | keleu- to wander + 845 | | | | | 5 | | | | | | 11 | | | | 2 |
| 855-87 | k$_e$lə̯u̯o- bald, bare | 1 | 2 | ? | | | | | 8 | | ? | | | | | 3 |
| 856-88 | kelg- to wind around | | | 3 | | | | | | 9 | 10 | | 12 | | | 4 |
| 857-89 | kelp- jug, pot | | | | | 5 | | | 8 | 9 | | | | | | 3 |
| 858-90 | 1. kem- to press together | | | 3 | | ? | | | | | 10 | 11 | 12 | | | 4 |
| 859-91 | 2. kem- to hum, croon | 1 | | | | | | | | | 10 | 11 | 12 | | | 4 |
| 860-92 | 1. ḱem- pole, stick | 1 | | 3 | | 5 | | | ? | | 10 | | | | | 4 |
| 861-93 | 2. ḱem- hornless (of otherwise horned animals) + 1616 | 1 | | | | 5 | | | | | 10 | 11 | ? | | | 4 |
| 862-94 | 3. ḱem- to cover, conceal | 1 | | | | | | | 8 | 9 | 10 | | | | | 4 |
| 863-95 | 4. ḱem(ə)- to make o.s. (become) tired | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| 864-96 | kemə- bite? | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 865-97 | kemero- name of plant. | 1 | | | | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 866-98 | k$_e$mer- animals with armour | 1 | | | | 5 | | | | | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 867-99 | 1. ken- to pinch + 546 | | 1 | | | 5 | | | 8 | 9 | 10 | 11 | | 13 | | 7 |
| 868-100 | 2. ken- to scratch skin | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 869-101 | 3. ken- to come forth freshly | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | 12 | | | 7 |
| 870-102 | 4. ken- to trouble o.s., strive eagerly | | | | | 5 | | | 8 | 9 | | | | | | 3 |
| 871-103 | ḱen- empty, null | | | 3 | | 5 | | | | | | | | | | 2 |
| 872-104 | $k_e$nəkó- golden (colour) | 1 | | | | 5 | | | 8 | | 10 | 11 | | | | 5 |
| x | keng-, kenk- + 826 | | | | | | | | | | | | | | | |
| 873-105 | 1. kenk- to gird | 1 | | | | 5 | | | 8 | | | 11 | | | | 4 |
| 874-106 | 2. kenk- to burn, injure | 1 | | | | 5 | | | | | 10 | 11 | | | | 4 |
| 875-107 | 3. kenk- back of knee, heel | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 876-108 | ḱenk- to dangle + 793 | 1 | | | | | | | 8 | | 10 | | | | 14 | 4 |
| 877-109 | ḱens- to speak formally, announce + 1577 | 1 | 2 | | | | | 7 | 8 | | | | 12 | | | 5 |
| 878-110 | kenth(o)- rag | 1 | | 3 | | 5 | | | 8 | | 10 | | | | | 5 |
| 879-111 | ḱent- to stab | | | | | 5 | | | | 9 | 10 | 11 | | | | 4 |
| 880-112 | 1. ker- hoarse-sounding (onomat.) + 810 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | ? | | 9 |
| x | 2. ker- + 1625 | | | | | | | | | | | | | | | |
| 881-113 | 3. ker(ə)- to burn + 844 | 1 | | | | | | | 8 | | 10 | 11 | 12 | ? | | 5 |
| 882-114 | 4. ker- cherry + 1625? | | | | ? | 5 | | | | | | 11 | 12 | | | 3 |
| 883-115 | 5. (ker-?), kor- to hang | | | | | ? | | | | | | 11 | | | | 1 |
| 884-116 | 6. ker- dark, dirty, grey (colour) + 889 | 1 | 2 | 3 | | 5 | 6 | 7 | ? | 9 | 10 | 11 | 12 | | | 10 |
| x | 7. ker- + 1623 or 1624 | | | | | | | | | | | | | | | |
| 885-117 | 1. ḱer- upper part of body | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 886-118 | 2. ḱer- to grow | | | 3 | | 5 | | 7 | 8 | | 10 | 11 | | | | 6 |
| 887-119 | 3. ḱer- string; to plait | | | 3 | | 5 | | | | | | | | | | 2 |
| 888-120 | 4. ḱer- to wound, injure | 1 | 2 | | | 5 | | 7 | 8 | 9 | | | | 13 | | 7 |
| 889-121 | ḱerbero- chequered + 884 | 1 | | | | 5 | | | | ? | | ? | ? | | | 2 |
| 890-122 | 1. kerd- to gird | | | | | | | | | 9 | | | 12 | | | 2 |
| 891-123 | 2. kerd- skilled manually | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 892-124 | ḱerdho- row, herd | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | | | 7 |
| 893-125 | (kered-) heart | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 894-126 | (kerem-) type of onion, | | | | | 5 | ? | | | 9 | 10 | 11 | 12 | | | 5 |
| 895-127 | kerəp- leather rags, shoes + 899, 1625, 1628, 1629 | | | | | 5 | | | ? | 9 | 10 | 11 | 12 | | | 5 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 896-128 | (ker[-) to shrivel up | 1 | 2 | | | | | | 8 | | 10 | 11 | 12 | | | 6 |
| 897-129 | [ere- to mix | 1 | 2 | | | 5 | | | | | 10 | | | | | 4 |
| 898-130 | kerm- to tire, rest | | | | | | | | | | 10 | 11 | | | | 2 |
| 899-131 | kerno- chin-bone + 895 | ? | | | | | | | | 9 | | ? | 12 | | | 2 |
| 900-132 | [ē-ro- (colour root) + 829 | 1 | | 2 | | 5 | | | | | | | | | | 3 |
| 901-133 | kers- dirty colour + 844 | 1 | | | | | | | | | 10 | 11 | 12 | | | 4 |
| 902-134 | 1. [er(s)- bristle + 844 | 1 | | | | | | | | 9 | 10 | 11 | 12 | | | 5 |
| 903-135 | 2. [ers- to run | | | | | 5 | ? | | 8 | 9 | 10 | | | | | 4 |
| 904-136 | kert- to turn (together) | | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | ? | | 7 |
| 905-137 | kes- to scratch, comb | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 906-138 | [es- to cut | 1 | | | | 5 | | 7 | 8 | 9 | 10 | | 12 | | | 7 |
| 907-139 | k[t- living-room, space | | 2 | | | 5 | | | 8 | | 10 | | 12 | | | 5 |
| 908-140 | 1. keu- to pay attention | 1 | 2 | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 8 |
| 909-141 | 2. keu- to bend + 823 | 1 | 2 | ? | ? | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 910-142 | 1. [eu- to swell | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 911-143 | 2. [eu- to shine | 1 | 2 | 3 | | | | | | 9 | | 11 | 12 | | | 6 |
| 912-144 | 1. k[u- to totter | | | | | | | | 8 | | | | 12 | | | 2 |
| 913-145 | 2. k[u- to set alight | | | | | 5 | | | | | | 11 | | | | 2 |
| 914-146 | [eub- thorn | | | | | | | | | | 10 | 11 | | | | 2 |
| 915-147 | keuad- to shout + 1638 | 1 | 2 | | | 5 | | | | | 10 | | 12 | | | 5 |
| 916-148 | (keuap-) to smoke | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 917-149 | [ēuero north (wind) | | | ? | | | | | 8 | | ? | 11 | 12 | | | 3 |
| 918-150 | [euk- to light | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 919-151 | [euk- to mix together | | | | | 5 | | | | | | 11 | | | | 2 |
| 920-152 | kik- jay | 1 | | | | 5 | | | | | 10 | | | | | 3 |
| 921-153 | 1. [ik- strap | 1 | | | | 5 | | | | | | 11 | | | | 3 |
| 922-154 | 2. [ik- to dribble | 1 | | | | | | | | | 10 | | | | | 2 |
| 923-155 | [ik[r- pea (IE?) | | | 3 | 4 | 5 | | | 8 | | | ? | ? | | | 4 |
| 924-156 | [ī[n- pillar | | | 3 | | 5 | | | | | | | | | | 2 |
| 925-157 | [iph- thin, pliable twig | 1 | | | | 5 | | | | | | 11 | | | | 3 |
| 926-158 | kistō- plaited container | | | | | 5 | | | | 9 | | | | | | 2 |
| 927-159 | klā- to day down broadly + 1613 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 928-160 | klādhrā alder (tree) | | | | | 5 | | | | | 10 | | | | | 2 |
| 929-161 | klau- to weep | | | | | 5 | | 7 | | | | | | | | 2 |
| 930-162 | klēg- to shout, scream | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 931-163 | [lei- to bow, lean + 850 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 932-164 | klei[- to press (painfully) | 1 | | | | | | | | | | 11 | 12 | | | 3 |
| 933-165 | klem- slack | 1 | | | | 5 | | | | 9 | | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 934-166 | kleng- to bend | | | | | | | | 8 | | 10 | 11 | 12 | 13 | | 5 |
| 935-167 | kleno- maple | | | | 4 | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 936-168 | klep- damp? + 941, 1642, 1738 | | | | | 5 | | | | 9 | | 11 | | | | 3 |
| 937-169 | ĉlep- to secrete + 794 | | | | | 5 | | | 8 | 9 | 10 | 11 | | | | 5 |
| 938-170 | klēp- to hold together in the arms and lap + 1610 | | | | | | | | | | 10 | 11 | | | | 2 |
| 939-171 | klēu- hook | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 940-172 | 1. ĉleu- to hear | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 941-173 | 2. ĉleu- to swill + 936 | | | | | 5 | | | 8 | 9 | 10 | 11 | ? | | | 5 |
| 942-174 | ĉlou-ni- buttock, hip + 1613 | 1 | | | | ? | | | 8 | 9 | 10 | 11 | | | | 5 |
| 943-175 | knei-g$^{u}_{u}$h- to incline | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 944-176 | kneug- (onomat.) | | | | | 5 | | | | | | 11 | | | | 2 |
| 945-177 | knid- louse + 1617? | | | 3 | | 5 | | 7 | | 9 | 10 | | | | | 5 |
| 946-178 | ĉo- this | | | 3 | 4 | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 947-179 | kob- to fit well | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 948-180 | koi- creaking (onomat) | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 949-181 | koi-lo- miserable; naked | | | | | | | | | 9 | | 11 | | | | 2 |
| 950-182 | ĉoi-no- grass | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 951-183 | kois- to worry | | | | | | | | 8 | ? | 10 | | | | | 2 |
| 952-184 | ko ko clucking (onomat) | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 953-185 | koĉsā part of the body | 1 | 2 | | | | | | 8 | 9 | 10 | | | | | 5 |
| 954-186 | kolə- to spin? + 1613 | | | | | 5 | | | 8 | | | | | | | 2 |
| 955-187 | ĉoləmo-s stem, reed + 851 | | | | | 5 | | | 8 | | 10 | 11 | 12 | 13 | | 6 |
| 956-188 | kol(ē)i- glue | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| x | koli- + 846 | | | | | | | | | | | | | | | |
| 957-189 | kom alongside | | | | | 5 | 6 | 7 | 8 | 9 | 10 | | 12 | | 14 | 8 |
| 958-190 | konəmo- shinbone | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 959-191 | ĉonk- to be in doubt | 1 | | | | | | | 8 | | 10 | | | | | 3 |
| 960-192 | ĉonkho- mussel? | 1 | | | | 5 | | | ? | | | ? | | | | 2 |
| 961-193 | ĉop(h)elo-s type of carp | 1 | | | | 5 | | | | | | 11 | | | | 3 |
| 962-194 | kopso- blackbird | 1 | | | | 5 | | | | | | | 12 | | | 3 |
| 963-195 | ĉorkā gravel, grit | 1 | | | | 5 | | | | | | | | | | 2 |
| x | ĉormen- + 884 | | | | | | | | | | | | | | | |
| 964-196 | ĉormno- corrosive liquid including wine | | | | | | | | | | 10 | 11 | | | | 2 |
| 965-197 | ĉormo- torment, pain | | 2 | | | | | | | | 10 | | 12 | | | 3 |
| 966-198 | koro-s war, army + 809 | | 2 | | | 5 | | | | 9 | 10 | 11 | | | | 5 |
| 967-199 | kos(e)lo- hazel | | | | | | | | 8 | 9 | 10 | 11 | | | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 968-200 | kost- leg, bone | | | | | | | | 8 | | | | 12 | | | 2 |
| 969-201 | ḱrăpo- roof | | | | | | | | | | 10 | | 12 | | | 2 |
| x | ḱrā- + 885 or 897 | | | | | | | | | | | | | | | |
| x | krāt- + 904 | | | | | | | | | | | | | | | |
| 970-202 | krā(u)- upon each other | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| x | ḱre-, ḱrei-, ḱr̥- + 885 | | | | | | | | | | | | | | | |
| x | krē- + 888 | | | | | | | | | | | | | | | |
| x | 5. kreb- + 880 | | | | | | | | | | | | | | | |
| 971-203 | ḱrebh- to entrust? | 1 | | | | | | | | | 10 | | | | | 2 |
| 972-204 | kred- beams + 893 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 973-205 | 1. kreg- to torment | 1 | | | | | | | | | 10 | | | | | 2 |
| x | 2. kreg- + 880 | | | | | | | | | | | | | | | |
| 974-206 | 1. krei- to stroke past | | | | | | | | | | 10 | 11 | | | | 2 |
| x | 2. krei-, kreig-, kreik- + 880 | | | | | | | | | | | | | | | |
| 975-207 | ḱrei- to shine forth | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 976-208 | 1. krek- to hit | | | | | 5 | | | | | 10 | 11 | ? | | | 3 |
| 977-209 | 2. krek- frog or fish spawn | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| | 3. krek- + 880 | | | | | | | | | | | | | | | |
| 978-210 | 4. krĕk- to tower, jut out | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| x | krem- + 894 | | | | | | | | | | | | | | | |
| 979-211 | 1. krep- body, form | 1 | 2 | | | | | ? | 8 | 9 | 10 | | | | | 5 |
| x | 2. krep- + 880 | | | | | | | | | | | | | | | |
| 980-212 | 1. krēp- strong, firm | | | | | | | | | | 10 | | 12 | | | 2 |
| x | 2. krēp- + 895 | | | | | | | | | | | | | | | |
| 981-213 | 1. kret- to shake | | | | | | | | | 9 | 10 | 11 | | | | 3 |
| 982-214 | 2. kret- to hit | | | | | 5 | | | | | 10 | | ? | | | 2 |
| 983-215 | 1. kreu- thick (clotting) blood | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 984-216 | 2. kreu- to clash, fall | | | | | | | | | | 10 | 11 | | | | 2 |
| 985-217 | 3. kreu- to thrust, hit | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| x | 4. kreu- + 880 | | | | | | | | | | | | | | | |
| 986-218 | kreup- scab | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 987-219 | kreu-t- to shake | | | | | | | | | | 10 | 11 | | 13 | | 3 |
| 988-220 | krom- lattice framework | | | | | | | | | | 10 | | 12 | | | 2 |
| 989-221 | kr(o)k-sko- arm | 1 | | | | | | 7 | | | | 11 | 12 | | | 4 |
| 990-222 | ḱrūs- lower thigh, leg | | | 3 | | | | | 8 | | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 991-223 | krŭ̆t- vault, breast + 1622, 1623, 1624 | | | | | | | | | 9 | | 11 | | | | 2 |
| 992-224 | ḱsā- to burn? + 994 | 1 | | 3 | | | | | | | | | | | | 2 |
| 993-225 | kseip- to throw, toss | 1 | | | | | | | | | | | 12 | | | 2 |
| x | ks-en, ks-es, ks-eu- + 905 | | | | | | | | | | | | | | | |
| 994-226 | ḱsĕ-ro- dry + 992 | | | | | 5 | | | 8 | | 10 | | | 13 | | 4 |
| 995-227 | keubh- to totter | 1 | 2 | | | | | | | | | | 12 | | | 3 |
| 996-228 | kseud- to stamp into small pieces | 1 | | | | | | | | | | | 12 | | | 2 |
| 997-229 | ḱ̑ei- to settle | 1 | 2 | 3 | | 5 | | | | | | | | | | 4 |
| 998-230 | ḱ̑ē(i)- to attain, gain | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 999-231 | ku- in words for 'kiss' | ? | | | | 5 | | | | | 10 | | | | 14 | 3 |
| 1000-232 | ḱū- pointed; stake | 1 | 2 | 3 | | | | | 8 | 9 | | | | | | 5 |
| 1001-233 | ḱŭ̆dh- dung | | | | | 5 | | | | | | 11 | | | | 2 |
| 1002-234 | kuku cuckoo (onomat) | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1003-235 | ḱup- shoulder | 1 | 2 | | | | | 7 | | | 10 | | | | | 4 |
| 1004-236 | ku̯ak- to croak, quack (onomat) | | | | | 5 | | | 8 | | 10 | | 12 | | | 4 |
| 1005-237 | ku̯at(h)- to ferment | 1 | | | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 1006-238 | 1. ḱu̯ei- mud, mire | | | 3 | | | | | 8 | | 10 | 11 | | | | 4 |
| 1007-239 | 2. ḱu̯ei- to twitter | | | 3 | | | | | | | 10 | 11 | 12 | | | 4 |
| 1008-240 | 3. ḱu̯ei- to shine | 1 | 2 | | | 5 | | | | | 10 | 11 | 12 | | | 6 |
| 1009-241 | ḱu̯ek- to gape | 1 | | | | | | | | | | 11 | 12 | | | 3 |
| 1010-242 | ḱu̯el- muddy? | | | 3 | | | | | | | | 11 | | | | 2 |
| 1011-243 | ku̯eləḱ- bale + 1013 | 1 | | | | | | | 8 | | | | | | | 2 |
| 1012-244 | 1. ku̯elp- to buckle at the knees | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1013-245 | 2. ku̯elp- to vault + 1011 | ? | | | | 5 | | | ? | | 10 | | | | | 2 |
| 1014-246 | ḱu̯en- to celebrate | | 2 | | | | | | | | 10 | 11 | 12 | | | 4 |
| 1015-247 | ḱu̯endh-ro- (in designations for plants) | | | | | | | | 8 | 9 | 10 | 11 | | | | 4 |
| 1016-248 | ku̯erp- to turn | | | | | 5 | | | | 9 | 10 | | | 13 | | 4 |
| 1017-249 | ḱu̯es- to pant | 1 | 2 | 3 | | | | | 8 | | 10 | 11 | | | | 6 |
| 1018-250 | ku̯ēt- to shake + 1645 | | | | | ? | | | 8 | 9 | 10 | 11 | | | | 4 |
| 1019-251 | ku̯oi- to wish, want | 1 | | | | 5 | | | | | | 11 | | | | 3 |
| 1020-252 | ḱu̯on- dog | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 | 10 | 11 | ? | 13 | | 10 |
| 1021-253 | ku̯res- small wood | | | | | 5 | | | | 9 | 10 | | 12 | | | 4 |

Totals for K and $\hat{K}$ - 253

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 132 | 56 | 38 | 6 | 145 | 3 | 22 | 107 | 102 | 169 | 138 | 106 | 14 | 7 | = 1045 |
| % of 253 | 52 | 22 | 15 | 2 | 57 | 1 | 9 | 42 | 40 | 67 | 55 | 42 | 6 | 3 | |
| Rank | 4 | 8 | 9 | 13 | 2 | 14 | 10 | 5- | 7 | 1 | 3 | 5- | 11 | 12 | |

Kh

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1022-1 | kha kha! (exclamation indicating laughter) | 1 | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |

Totals for Kh - 1

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | = 7 |
| % of 1 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 100 | 0 | 100 | 100 | 100 | 0 | 0 | |
| Rank | 1- | 8- | 1- | 8- | 1- | 8- | 8- | 1- | 8- | 1- | 1- | 1- | 8- | 8- | |

$K^{u}_{\wedge}$

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | $k^{u}_{\wedge}$alo-s + 1646 | | | | | | | | | | | | | | | |
| 1023-1 | $k^{u}_{\wedge}$as-io- plaited work | | | | | | | | 8 | | | | 12 | | | 2 |
| 1024-2 | $k^{u}_{\wedge}\bar{a}$s- to cough | 1 | | | | | | 7 | | 9 | 10 | 11 | 12 | | | 6 |
| 1025-3 | 1. $k^{u}_{\wedge}$e (enclitic) and, somehow + 1035 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | 12 | | 14 | 9 |
| x | 2. $k^{u}_{\wedge}$e- + 1041 | | | | | | | | | | | | | | | |
| 1026-4 | $k^{u}_{\wedge}\breve{e}$d- to stab, bore | ? | | | | | | | 8 | | 10 | | | | | 2 |
| 1027-5 | $k^{u}_{\wedge}$ei-(t)- to pay attention to; regard with respect, punish, revenge | 1 | 2 | | | 5 | | | | 9 | | 11 | 12 | | | 6 |
| 1028-6 | 2. $k^{u}_{\wedge}$ei- to pile up | 1 | 2 | | | 5 | | | | | | | 12 | | | 4 |
| 1029-7 | $k^{u}_{\wedge}$ei$\underset{\sim}{\partial}$- to rest comfortably | 1 | 2 | 3 | | | | | 8 | | 10 | | 12 | 13 | 14 | 8 |
| 1030-8 | $k^{u}_{\wedge}$e$\underset{\frown}{k}$- to appear, see | 1 | 2 | | | 5 | | | | | | | 12 | | | 4 |
| 1031-9 | 1. $k^{u}_{\wedge}$el- to turn | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1032-10 | 2. $k^{u}_{\wedge}$el- afar off | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| 1033-11 | 3. $k^{u}_{\wedge}$el- to swarm, crowd | 1 | | | | 5 | | | | | | | 12 | | | 3 |
| 1034-12 | $k^{u}_{\wedge}$em- to swallow, gulp | 1 | 2 | 3 | | 5 | | | | | 10 | | | | | 5 |
| 1035-13 | $k^{u}_{\wedge}$ene (particle indicating generality + 1025 | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| 1036-14 | $k^{u}_{\wedge}$enth- to suffer | | | | | 5 | | | | 9 | | 11 | | | | 3 |
| 1037-15 | 1. $k^{u}_{\wedge}$er- to make, form | 1 | 2 | | | 5 | | | 8 | 9 | ? | 11 | 12 | | | 7 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1038-16 | 2. $k^{u}_{\wedge}$er- dish, dish-like | 1 | | | | | | | | 9 | 10 | | | | | 3 |
| 1039-17 | $k^{u}_{\wedge}$era- to chew, grind | 1 | | | | 5 | | | | | | | | | | 2 |
| 1040-18 | $k^{u}_{\wedge}$etuer- four | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1041-19 | $k^{u}_{\wedge}$o- (interrogative or relative particle) | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | ? | 11 |
| 1042-20 | $k^{u}_{\wedge}$rei- to buy | 1 | | | | 5 | | | | 9 | | 11 | 12 | 13 | | 6 |
| 1043-21 | $k^{u}_{\wedge}$rmi- worm, maggot | 1 | 2 | | | | | 7 | | 9 | | 11 | 12 | | | 6 |
| 1044-22 | $k^{u}_{\wedge}$sep- (?) dark | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| x | $k^{u}_{\wedge}$fei- + 791 | | | | | | | | | | | | | | | |

Totals for $K^{u}_{\wedge}$ - 22

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19 | 13 | 5 | 0 | 15 | 0 | 4 | 8 | 12 | 10 | 9 | 14 | 4 | 3 | = 116 |
| % of 22 | 86 | 59 | 23 | 0 | 68 | 0 | 18 | 36 | 55 | 45 | 41 | 64 | 18 | 14 | |
| Rank | 1 | 4 | 9 | 13- | 2 | 13- | 10- | 8 | 5 | 6 | 7 | 3 | 10- | 12 | |

L

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1045-1 | 1. l$\bar{a}$- (onomat) + 54 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1046-2 | 2. l$\bar{a}$- to be hidden | | | | | 5 | | | 8 | | 10 | | 12 | 13 | | 5 |
| 1047-3 | lab- to lick with a smacking noise + 1054 | | | 3 | | 5 | | 7 | 8 | | 10 | | 12 | | | 6 |
| 1048-4 | labh- to seize + 1478 | 1 | | | | 5 | | | | | | 11 | | | | 3 |
| 1049-5 | l$\breve{a}$gh- to cut + 1649 | | | | | 5 | | | | 9 | | | | | | 2 |
| x | lag$^{u}_{\wedge}$h- + 1649 | | | | | | | | | | | | | | | |
| 1050-6 | lai- fat, lard | | | | | 5 | | | 8 | | | | | | | 2 |
| 1051-7 | laidh- to cut, injure | | | | | 5 | | | 8 | | | 11 | | | | 3 |
| 1052-8 | laiuo- on the left | | | | | 5 | 6 | | | | | 11 | 12 | | | 4 |
| 1053-9 | l$\bar{a}$(i)p- to shine | 1 | | | | 5 | | | | 9 | 10 | 11 | 12 | | 14 | 7 |
| 1054-10 | lak- to lick with clicking sound + 1047 | | | 3 | | | | | | | | 11 | 12 | | | 3 |
| 1055-11 | la$\hat{k}$- to sprinkle | ? | | | | | | | | | 10 | 11 | 12 | 13 | | 4 |
| 1056-12 | laku- collection of water in a ditch etc. | | | | | 5 | | | 8 | 9 | 10 | | 12 | | | 5 |
| 1057-13 | lama (f) puddle, swamp? | | | | | | 6 | | 8 | | | 11 | 12 | | | 4 |
| 1058-14 | l$\bar{a}$p- cow | | | | | | | 7 | | | 10 | 11 | | | | 3 |
| 1059-15 | las- greedy | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1060-16 | lat- damp, wet | | | | | 5 | | | | 9 | 10 | 11 | | | | 4 |
| 1061-17 | l$\bar{a}$u- to carry off as booty | 1 | | | | 5 | | | 8 | 9 | 10 | | 12 | | | 6 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1062-18 | lauk(o)- throat + 1658 | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| x | 1ē- 1045 | | | | | | | | | | | | | | | |
| 1063-19 | 1ĕb- to hang down slackly | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 1064-20 | 1.leg- to dribble, drip | | | 3 | | | | | | 9 | 10 | | | | | 3 |
| 1065-21 | 2. leg- to worry about sth | | | | | 5 | | 7 | | | | | | | | 2 |
| 1066-22 | leĝ- to gather, collect | | | | | 5 | | 7 | 8 | | 10 | | | | | 4 |
| 1067-23 | legh- to lie down + 1069 | | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 9 |
| 1068-24 | 1. leĝ(h)- twig, branch | | | | | | | 7 | | | | 11 | 12 | | | 3 |
| 1069-25 | 2. leĝ(h)- to crawl + 1067 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1070-26 | leg$^{u}$h- light in movement | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | | | 10 |
| x | 1. lei- + 451 | | | | | | | | | | | | | | | |
| 1071-27 | 2. lei- to disappear + 1078, 1083, 1089 | | | | | 5 | | | | 9 | 10 | 11 | 12 | 13 | | 6 |
| 1072-28 | 3. lei- slimy + 1073, 1085 1097, 1653 | | | 1 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1073-29 | 4. lĕi- to pour + 1072 | | | 1 | | 5 | | ? | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1074-30 | 1. lē(i)- to want | | | | | 5 | | | | ? | 10 | | | | | 2 |
| 1075-31 | 2. lē(i)- to grant, possession + 1076, 1111 | | | 1 | | 5 | | | | | 10 | 11 | 12 | | | 5 |
| 1076-32 | 3. lē(i)- to leave behind + 1075 | | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 6 |
| 1077-33 | leid- to play, joke | | | | | 5 | | | 8 | ? | | | | | | 2 |
| 1078-34 | 1. leig- needy, miserable, illness + 1071 | | | 3 | | 5 | | 7 | | 9 | | 11 | | | | 5 |
| 1079-35 | 2. (lĕig-) form | | | | | | | | | | 10 | 11 | | | | 2 |
| 1080-36 | 3. leig- to hop, tremble | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | | | | 6 |
| 1081-37 | 4. leig- to tie, bind | | | | | | | 7 | 8 | | 10 | 11 | 12 | | 14 | 6 |
| 1082-38 | leiĝh- to lick | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1083-39 | 1. leik- to offer for sale + 1071 | | | | | | | | 8 | | | 11 | | | | 2 |
| x | 2. leik- + 451 | | | | | | | | | | | | | | | |
| 1084-40 | leik$^{u}$- to let, leave over | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1085-41 | 1. leip- to smear with fat + 1072 | 1 | 2 | | | 5 | | 7 | 8 | | 10 | 11 | 12 | 13 | 14 | 10 |
| 1086-42 | 2. leip- to desire | | | | | 5 | | | | | | 11 | | | | 2 |
| 1087-43 | leis- to track down on the ground, furrow | | | | | | | | 8 | | 10 | 11 | 12 | | | 4 |
| 1088-44 | 1. leit- to abhor, detest | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1089-45 | 2. leit(h)- to go away, die + 1071 | | | 2 | | 5 | | | | | 10 | | | 13 | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1090-46 | leizd- edge, hem | | | | | | | 7 | | | 10 | | | | | 2 |
| 1091-47 | 1. (lek-?) to blame | | | | | | | | | 9 | 10 | | | | | 2 |
| 1092-48 | 2. lek- limb of the body | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1093-49 | 1. lēk- tendril; trap | | | | | | | | 8 | | 10 | | | | | 2 |
| 1094-50 | 2. lēk- to tear to pieces | | | | | 5 | | 7 | 8 | | | | 12 | | | 4 |
| 1095-51 | 1. lem- to break to pieces | | | | | 5 | 6 | ? | | 9 | 10 | 11 | 12 | | | 6 |
| 1096-52 | 2. lem- with the look of wide open jaws | | | | | 5 | | | 8 | 9 | | 11 | | | | 4 |
| 1097-53 | 1. lendh- wetness, spring + 1072 | | | | | | | | | 9 | 10 | | | | | 2 |
| 1098-54 | 2. lendh- loins, kidney | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 1099-55 | 3. lendh- free land, heath | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1100-56 | leng- to bend o.s. + 1102 | | 1 | | | | | 7 | | | | 11 | 12 | | | 4 |
| 1101-57 | lengh- to scorn? | | | | | 5 | | | | ? | | 11 | | | | 2 |
| 1102-58 | lenk- to bend + 1100 | | | | | | | | | ? | 10 | 11 | 12 | | | 3 |
| 1103-59 | lento- pliable | 1 | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1104-60 | 1. lep- (onomat) | 1 | 2 | | | ? | | | | 9 | | | 12 | | | 4 |
| 1105-61 | 2. lep- peel, skin | | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 6 |
| 1106-62 | 3. lep- rock, stone? | | | | | 5 | | | 8 | | | | | | | 2 |
| 1107-63 | lēp- to be flat | | 2 | | | | | | | | 10 | 11 | 12 | | | 4 |
| 1108-64 | lerd- to shrivel up | | | 3 | | 5 | | | | 9 | 10 | | | | | 4 |
| 1109-65 | lerg- smooth, even + 1133 | | | 3 | | | | | | 9 | ? | | | | | 2 |
| 1110-66 | les- to collect | | | | | | | | | ? | 10 | 11 | | | | 2 |
| 1111-67 | (lēs)- slack + 1075 | | | | | | | | ? | | 10 | 11 | 12 | 13 | | 4 |
| 1112-68 | leto- burning, heat, anger | | | | | | | | | 9 | | | 12 | | | 2 |
| 1113-69 | lēto- warm time, summer | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 1114-70 | letro- leather + 1387 | | | | | | | | | 9 | 10 | | | | | 2 |
| 1115-71 | 1. leu- dirt + 1124 | | | | | 5 | | 7 | 8 | 9 | | 11 | | | | 5 |
| 1116-72 | 2. leu- to cut off + 1129 | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 10 |
| 1117-73 | 1. lēu- to leave behind | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1118-74 | 2. lēu- stone | | | | | 5 | | 7 | | 9 | | | | | | 3 |
| 1119-75 | 3. lēu- (onomat) + 1045 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1120-76 | leubh- to like, love | 1 | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 7 |
| 1121-77 | leud- to duck down | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1122-78 | 1. leudh- to grow up | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| x | 2. leu-dh- + 499 | | | | | | | | | | | | | | | |
| 1123-79 | 1. leug- to bend | | | | | 5 | | | 8 | 9 | 10 | 11 | | | | 5 |
| 1124-80 | 2. leu-g- blackish, swamp + 1115 | ? | | | | 5 | 6 | | | ? | | | 12 | | | 3 |
| 1125-81 | leuĝ- to break | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 9 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1126-82 | 1. leugh- to tell lies | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1127-83 | 2. leugh- oath | | | | | | | | | 9 | 10 | | | | | 2 |
| 1128-84 | leuk- to shine, light | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1129-85 | leup- to peel, break off + 1116 | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1130-86 | lēut- raging? | | | | | | | | | 9 | | | 12 | | | 2 |
| 1131-87 | lī̆-no- linen? | | | | | | | 7 | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1132-88 | loĝ- rod? | | | | | 5 | | | | | | | 12 | | | 2 |
| 1133-89 | lorgā- stick, club + 1109 | | | | | | | | | 9 | 10 | | | | | 2 |
| 1134-90 | lou- to wash | | | 3 | | 5 | | | 8 | 9 | 10 | | | | 14 | 6 |
| 1135-91 | lŭs- louse | 1 | | | | | | | | 9 | 10 | 11 | 12 | ? | | 5 |

Totals for L - 91

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 12 | 13 | 0 | 54 | 6 | 23 | 42 | 46 | 64 | 57 | 54 | 9 | 7 | = 412 |
| % of 91 | 27 | 13 | 14 | 0 | 59 | 7 | 25 | 46 | 51 | 70 | 63 | 59 | 10 | 8 | |
| Rank | 7- | 10 | 9 | 14 | 3- | 13 | 8 | 6 | 5 | 1 | 2 | 3- | 11 | 12 | |

M

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1136-1 | 1. mā- to wave (hand) | 1 | | | | 5 | | | | | | 11 | 12 | | | 4 |
| 1137-2 | 2. mā- good, at a good time | | | | ? | | | | 8 | 9 | | | | | | 2 |
| 1138-3 | 3. mā- mother + 1159 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 11 |
| 1139-4 | mad- wet, to drip | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | | | | 8 |
| 1140-5 | magh- to be able | 1 | 2 | 3 | | 5 | | | | | 10 | 11 | 12 | ? | | 7 |
| 1141-6 | maghos, -ā young | | 2 | | | | | 7 | | 9 | 10 | 11 | | | | 5 |
| 1142-7 | maĝ- to knead + 1148, 1220 | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 1143-8 | maĝh- to struggle | | | | | 5 | | | | | | | | | | 1 |
| 1144-9 | 1. mai- to hew | 1 | | | | 5 | | | | 9 | 10 | 11 | ? | | | 5 |
| 1145-10 | 2. mai- to stain, dirty | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1146-11 | mak- skin, leather bag | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1147-12 | 1. măk- wet, to dampen | | | 3 | | | 6 | 7 | | | | 11 | 12 | | | 5 |
| 1148-13 | 2. māk- to knead, + 1142 | | | | | | | | 8 | | | 11 | 12 | | | 3 |
| 1149-14 | mak(en)- poppy? | | | | | 5 | | | | | 10 | | 12 | | | 3 |
| 1150-15 | mako- gnat | 1 | ? | | | | | | | | | 11 | 12 | | | 3 |
| 1151-16 | maǩ- long and thin | | 2 | | | 5 | | | 8 | ? | 10 | | | | 14 | 5 |
| 1152-17 | makh-o-s frisky? | 1 | | | | 5 | | | | | | | | | | 2 |
| 1153-18 | mand- hurdle made of plaited rods? + 1216 | 1 | | | 4 | 5 | 6 | | | | | | | | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1154-19 | ma-no- damp, wet | | | | | | | | 8 | 9 | ? | | | | | 2 |
| 1155-20 | manu-s man, human-being | 1 | 2 | | | | | | | | 10 | ? | 12 | | | 4 |
| 1156-21 | marko- horse | | | | | | | | | 9 | 10 | | | | | 2 |
| 1157-22 | 1. math- (in words for) biting worms or vermin? | | | 3 | | | | | | | 10 | | | | | 2 |
| 1158-23 | 2. math- hoe; mattock | 1 | | | | | | | 8 | | 10 | | ? | | | 3 |
| 1159-24 | mātér- mother + 1138 | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 1160-25 | mau-ro- tired, weak | | | | | 5 | | | | | 10 | | 12 | | | 3 |
| 1161-26 | mazdo-s pole, mast | | | | | | | | 8 | 9 | 10 | | 12 | | | 4 |
| 1162-27 | 1. me- me + 429 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 |
| 1163-28 | 2. me- mid(dle) + 1171 | | | 3 | | 5 | 6 | 7 | | | 10 | | | | | 5 |
| 1164-29 | 1. mē- (that) not, lest + 65 | 1 | 2 | 3 | | 5 | | 7 | | | | | | | | 5 |
| 1165-30 | 2. mē- to mow | | | | | 5 | | | 8 | 9 | 10 | | | | | 4 |
| 1166-31 | 3. mē- to measure, mark off + 1169, 1223 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1167-32 | 4. mē- big, considerable | | | | | 5 | | | | 9 | 10 | 11 | 12 | 13 | | 6 |
| 1168-33 | 5. mē- to be under the influence of a violent and forceful will | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 1169-34 | 1. med- to measure + 1166 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | | | | 7 |
| 1170-35 | 2. med- to swell? | | | | | 5 | | | | 9 | | | | | | 2 |
| 1171-36 | medhi- middle + 1163 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1172-37 | médhu- honey | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | 13 | | 8 |
| 1173-38 | mĕgh- well-disposed + 1666 | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1174-39 | meĝ(h)- big | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | | 13 | 14 | 10 |
| 1175-40 | 1. mei- to fix + 1178 | 1 | 2 | 3 | | | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1176-41 | 2. mei- to (ex)change + 1184, 1185, 1189 | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1177-42 | 3. mei- to wander, go | | | | | ? | | | 8 | 9 | | 11 | 12 | | | 4 |
| 1178-43 | 4. mei- to tie + 1175 | 1 | 2 | | | 5 | | | | | | 11 | | | | 4 |
| 1179-44 | 5. mei- to lessen; small | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 8 |
| 1180-45 | 6. mei- (onomat= high, thin sounds and cries + 1190, 1269 | 1 | | | | 5 | | | 8 | | | | 12 | | | 4 |
| 1181-46 | 7. mei- mild, soft | 1 | 2 | | | | | 7 | 8 | 9 | | 11 | 12 | | | 7 |
| 1182-47 | meigh- to flicker, blink + 1187 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1183-48 | meigh- to urinate | 1 | 2 | 3 | | 5 | | | 8 | | 10 | 11 | 12 | 13 | | 9 |
| 1184-49 | mei-g$^{u}$- to (ex)change +1176 | | | | | 5 | | | 8 | | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1185-50 | mei-k̂- to mix + 1176 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1186-51 | mei-no- opinion, view | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 1187-52 | meis- to flicker + 1182 | 1 | | | | | | | | | 10 | | 12 | | | 3 |
| 1188-53 | 1. meit(h)- (place of stay) | 2 | | | | | | | | | | 11 | | | | 2 |
| 1189-54 | 2. mei-t(h)- to (ex)-change + 1176 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1190-55 | mek- (onomat) to bleat + 1180 | 1 | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1191-56 | 1. mel- to grind | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1192-57 | 2. mel- to miss, deceive | | 2 | 3 | | 5 | | | | 9 | | 11 | | | | 5 |
| 1193-58 | 3. mel- to hesitate | | | | | 5 | | | 8 | 9 | | | | | | 3 |
| 1194-59 | 4. mel- strong, big + 1202 | | | | | 5 | | | 8 | | | 11 | | | | 3 |
| 1195-60 | 5. mel- limb | 1 | | 3 | | 5 | | | | 9 | | 11 | | 13 | | 6 |
| 1196-61 | 6. mel- (in words for dirty or dark colours) + 1672 | 1 | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 7 |
| 1197-62 | 7. mel- wool, woollen garment | | | | | 5 | | | | | | 11 | | | | 2 |
| 1198-63 | 8. mel- to come forth | 1 | | | | 5 | 6 | 7 | | 9 | | 11 | 12 | | | 7 |
| 1199-64 | 1. meldh- to direct ritual words to God | | | 3 | | | | | | | 10 | 11 | 12 | | 14 | 5 |
| 1200-65 | 2. meldh- lightning | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1201-66 | mĕlĝ- to stroke off, wipe, milk + 1204 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1202-67 | melĝh- to swell + 1194 | 1 | 2 | 3 | | | | | | | | 11 | | | | 4 |
| 1203-68 | meli-t honey | | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | | | 14 | 8 |
| 1204-69 | 1. melk- to stroke + 1201 | | | | | | | | 8 | | | | | | | 1 |
| 1205-70 | 2. melk- wet | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 1206-71 | mēlo- small animal | | | 3 | | 5 | | | 8 | 9 | 10 | | 12 | | | 6 |
| 1207-72 | melōdh- elevation, head | 1 | 2 | | | 5 | | | | | 10 | | | 13 | | 5 |
| 1208-73 | mels- to taste sth. | | | | | | | | | 9 | | | 12 | | | 2 |
| 1209-74 | membh- to reproach? | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1210-75 | mēmso- flesh, meat | 1 | | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1211-76 | 1. men- to lift one's head, rise + 1225, 1256 | | 2 | | | | | | 8 | 9 | 10 | | | | | 4 |
| 1212-77 | 2. men- to tread (down) | 1 | | | 4 | 5 | | | | 9 | | 11 | 12 | | | 6 |
| 1213-78 | 3. men- to think + 1215 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1214-79 | 4. men- small; to reduce + 1222 | 1 | | 3 | | 5 | | | | 9 | 10 | 11 | | 13 | 14 | 8 |
| 1215-80 | 5. men- to remain + 1213 | 1 | 2 | 3 | | 5 | | | 8 | 9 | | | | 13 | 14 | 8 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1216-81 | mend- to suck(le), breast + 1153? | | | | | | 6 | 7 | 8 | 9 | 10 | | | | | 5 |
| 1217-82 | mend(ā, -om) mistake | 1 | | | | | | | 8 | 9 | | | | | | 3 |
| 1218-83 | mendh- to direct one's mind (attention) to | 1 | 2 | | | 5 | | 7 | | 9 | 10 | 11 | 12 | | | 8 |
| 1219-84 | men(e)gh- copious, much | 1 | | | | | | | | 9 | 10 | ? | 12 | | | 4 |
| 1220-85 | men(ə)k- to knead + 1142 | 1 | | | | 5 | | 7 | | | 10 | 11 | 12 | | | 6 |
| 1221-86 | meng- to make more beautiful | 1 | 2 | | | 5 | | 7 | ? | 9 | 10 | ? | | 13 | | 7 |
| 1222-87 | $m_e$ni- name of fish? +1214 | | | | | 5 | | | | | ? | | 12 | | | 2 |
| 1223-88 | mēnōt month + 1166 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1224-89 | 1. menth- to swirl | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1225-90 | 2. menth- to chew + 1211 | 1 | | | | 5 | | | 8 | 9 | 10 | | | | | 5 |
| 1226-91 | 1. mer- to plait, weave | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 1227-92 | 2. mer- to flicker | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1228-93 | 3. (mer-) to blacken, dark colour, spot of dirt | ? | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 1229-94 | 4. mer- to die + 1230, 1238, 1239, 1674 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1230-95 | 5. mer- to rub (up), rob + 1229 | 1 | 2 | 3 | | 5 | | ? | 8 | 9 | 10 | 11 | 12 | | 14 | 10 |
| 1231-96 | 6. mer- to disturb | 1 | | 3 | | | | | | | 10 | 11 | | | | 4 |
| 1232-97 | merədh- to bubble up | | | | | 5 | | | | | | 11 | | | | 2 |
| 1233-98 | mereĝ- edge, frontier | | 2 | | | | | | | 9 | 10 | | | | | 3 |
| 1234-99 | meregh- to moisten | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 1235-100 | 1. merĝ- to cast off | 1 | | 3 | | 5 | | | 8 | | | | | | | 4 |
| x | 2. merĝ- + 1238 | | | | | | | | | | | | | | | |
| 1236-101 | meri̯o- young man | 1 | | | | 5 | | 7 | ? | 9 | | 11 | | | | 5 |
| 1237-102 | merḱ- to grasp, seize | 1 | | | | 5 | | | ? | | | | | | | 2 |
| 1238-103 | 1. merk- to rot + 1229 | | | | | | | 7 | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1239-104 | 2. merk- vexacious + 1229 | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 1240-105 | mə-r hand | | | | | 5 | | 7 | 8 | 9 | 10 | | | | 14 | 6 |
| x | met + 1165 or 1166 | | | | | | | | | | | | | | | |
| 1241-106 | 1. meu- damp | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1242-107 | 2. meu̯- to push away + 1272 | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | | | | 6 |
| 1243-108 | mēudh- to be intent on | | 2 | | | 5 | | | | ? | 10 | 11 | 12 | | | 5 |
| 1244-109 | 1. meug- to lie in wait secretly and maliciously | | | | | | | | 8 | | 10 | | | | | 2 |
| 1245-110 | 2. meug- to slip | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1246-111 | meuk̂- to scratch, slit | ? | ? | | | 5 | | | 8 | | ? | ? | | | | 2 |
| x | mue-s- + 1272 | | | | | | | | | | | | | | | |
| 1247-112 | 1. mezg- to dive down | 1 | | | | ? | | | 8 | | | 11 | | | | 3 |
| 1248-113 | 2. mezg- to knit, knot | | | | | | | | | | 10 | 11 | ? | | | 2 |
| 1249-114 | mizdhó- reward, pay | 1 | 2 | | | 5 | | | | | 10 | | 12 | | | 5 |
| 1250-115 | mō- to trouble o.s. | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 1251-116 | mōd- to meet | | | 3 | | | | | | | 10 | | | | | 2 |
| 1252-117 | modhro- blue, plant dye? | | | | | | | | | | 10 | | 12 | | | 2 |
| 1253-118 | moiso-s sheep, pelt | 1 | 2 | | | | | | | | 10 | 11 | 12 | | | 5 |
| 1254-119 | mok̂s- soon | 1 | 2 | | | | | | 8 | 9 | | | | | | 4 |
| 1255-120 | molko- leather bag | | | | ? | 5 | | | | | 10 | | | | | 2 |
| 1256-121 | mono- neck + 1211 | 1 | 2 | | | 5 | 6 | | 8 | 9 | 10 | | 12 | | | 8 |
| 1257-122 | mori- sea | | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 5 |
| 1258-123 | mormor- (onomat) to murmur | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1259-124 | mormo(ro)- dread, horror | | | | | 5 | | | 8 | | | | | | | 2 |
| 1260-125 | moro- blackberry | | | 3 | | 5 | | | 8 | | | | | | | 3 |
| 1261-126 | moru̯i̯- ant | 1 | 2 | ? | | 5 | | | 8 | 9 | 10 | | 12 | | | 7 |
| 1262-127 | mō(u)-lo- root, plant | 1 | | | | 5 | | | | | | | | | | 2 |
| 1263-128 | mō(u)-ro- stupid | 1 | | | | 5 | | | | | | | | | | 2 |
| 1264-129 | moz-g-o marrow, brain | 1 | 2 | | | | | | | | 10 | 11 | 12 | 13 | | 6 |
| 1265-130 | mozĝho-s young bullock | | | 3 | | 5 | | | | | | | | | | 2 |
| 1266-131 | mrk- edible root | | | | | 5 | | | | | 10 | | ? | | | 2 |
| 1267-132 | mregh-m(n)o- skull | | | | | 5 | | | | | 10 | | | | | 2 |
| 1268-133 | mreĝhu- short | 1 | 2 | | | 5 | | | 8 | | 10 | | | | | 5 |
| 1269-134 | 1. mŭ- (onomat) sound made through closed lips + 1180 | 1 | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | 14 | 8 |
| 1270-135 | 2. mŭ- (onomat) fly, gnat | | | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 7 |
| 1271-136 | mŭk- heap | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1272-137 | mūs mouse; muscle + 1242 | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | | 12 | | | 8 |
| 1273-138 | mut-o-s curtailed, stunted | | | | | | | | 8 | 9 | | | | | | 2 |

Totals for M - 138

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 73 | 51 | 40 | 3 | 96 | 8 | 29 | 70 | 71 | 92 | 75 | 73 | 19 | 13 | = 713 |
| % of 138 | 53 | 37 | 29 | 2 | 70 | 6 | 21 | 51 | 51 | 67 | 54 | 53 | 14 | 9 | |
| Rank | 4- | 8 | 9 | 14 | 1 | 13 | 10 | 7 | 6 | 2 | 3 | 4- | 11 | 12 | |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1274-1 | 1. nā- to help, use | 1 | | | | 5 | | | | | | | | | | 2 |
| 1275-2 | 2. nā- to be afraid | | | | | | | | | 9 | | | | | 14 | 2 |
| 1276-3 | nāg$^{u}_{\wedge}$h- sober? | | | 3 | | 5 | | | | | | | | | | 2 |
| 1277-4 | nak- pelt | ? | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1278-5 | nana (lulling word) | 1 | 2 | | | 5 | | 7 | 8 | 9 | ? | | 12 | | | 7 |
| 1279-6 | nant- to dare | | | | | | | | | 9 | 10 | | | | | 2 |
| 1280-7 | nas- nose | 1 | 2 | | | | | | 8 | | 10 | 11 | 12 | | | 6 |
| 1281-8 | 1. nāus- ship | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | | | 8 |
| 1282-9 | 2. nāu- death, corpse | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1283-10 | 1. ne (negative particle) | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 11 |
| x | 2. ne + 467 | | | | | | | | | | | | | | | |
| 1284-11 | 3. ne- we + 1943 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 10 |
| 1285-12 | 1. nebh- to burst? | 1 | | | | | | | | | 10 | | | | | 2 |
| x | 2. nebh- + 462 | | | | | | | | | | | | | | | |
| 1286-13 | 1. ned- to turn, twist together, knot + 1303, 1304, 1306, 1680, 1684, 1688 | | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1287-14 | 2. ned- to sound, bellow | 1 | 2 | | 4 | 5 | 6 | | | | | | | | | 5 |
| 1288-15 | nedo- reed? | 1 | 2 | 3 | | | | | | | | 11 | | | | 4 |
| 1289-16 | neĝh- to bore, stab | ? | | | | | | | | 9 | | | 12 | | | 2 |
| 1290-17 | 1. nei- to lead | 1 | 2 | | | | | | | 9 | | | | | 14 | 4 |
| 1291-18 | 2. nei- to be moved, excited | ? | | | | | | | 8 | 9 | 10 | | | | | 3 |
| x | 3. nei-, ni- + 458 | | | | | | | | | | | | | | | |
| 1292-19 | 1. neid- to abuse + 458 | 1 | 2 | 3 | | 5 | | | | | 10 | 11 | | | | 6 |
| 1293-20 | 2. neid- to flow, stream | 1 | | | | | | | | 9 | | 11 | 12 | | | 4 |
| 1294-21 | neig$^{u}_{\wedge}$- to wash | 1 | | | | 5 | | | 8 | 9 | 10 | | | | | 5 |
| 1295-22 | neik- to winnow grain | | | | | 5 | | | | 9 | | 11 | | | | 3 |
| 1296-23 | nēik- to assail, assault | | | | | 5 | | | | ? | 10 | 11 | 12 | | | 4 |
| 1297-24 | nek̂- mortal destruction, corpse + 80 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | 13 | | 7 |
| 1298-25 | nek$^{u}_{\wedge}$-(t)- night | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 10 |
| 1299-26 | 1. nem- to apportion, take | 2 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 7 |
| 1300-27 | 2. nem- to bend | 1 | 2 | | | 5 | | | ? | 9 | 10 | 11 | | | | 6 |
| 1301-28 | nepōt- nephew (= 1283 + 1456?) | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1302-29 | 1. ner-(t-) life-force, man | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1303-30 | 2. ner- below + 458?, + 1304 | | | | | 5 | | | 8 | | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1304-31 | 3. ner- to break in + 1286 | | | | | ? | | | | ? | | 11 | 12 | | | 2 |
| 1305-32 | nes- to unite | 1 | 2 | | | 5 | | | | | 10 | | | 13 | | 5 |
| 1306-33 | nē-tr- snake + 1286 | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 1307-34 | 1. neu- to call, praise? | 1 | | | | | | | ? | 9 | | | | | | 2 |
| 1308-35 | 2. neu- to give s.o. a jolt, push | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1309-36 | neu-d- to grasp for sth. | | | | | | | | ? | ? | 10 | 11 | | | | 2 |
| 1310-37 | neu-dh- to desire, lust for | | | | | | | | | | 10 | 11 | | | | 2 |
| 1311-38 | neuk- dark, unclear | | | | | | | | 8 | | | 11 | | | | 2 |
| 1312-39 | neu-ks- to scent + 1286 | | | | | | | | | | 10 | | 12 | | | 2 |
| 1313-40 | neu̯os- new + 465 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 11 |
| x | ni- + 458 | | | | | | | | | | | | | | | |
| x | niz-do + 1543 | | | | | | | | | | | | | | | |
| x | no- + 467 | | | | | | | | | | | | | | | |
| 1314-41 | nog$^{u}$- naked | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 10 |
| 1315-42 | nog$^{u}$o- tree? | 1 | | | | | | | | | 10 | | | | | 2 |
| x | nok$^{u}$-(t-) + 1298 | | | | | | | | | | | | | | | |
| x | nōmn̥ + 468 | | | | | | | | | | | | | | | |
| 1316-43 | nōt- buttock, back? | | | | | 5 | | | 8 | | | | | | | 2 |
| 1317-44 | nū̆- now + 465 | 1 | 2 | | | 5 | | | 8 | ? | 10 | 11 | 12 | 13 | 14 | 9 |

Totals for N - 44

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 19 | 8 | 1 | 26 | 1 | 6 | 21 | 25 | 30 | 25 | 18 | 6 | 8 | = 219 |
| % of 44 | 57 | 43 | 18 | 2 | 59 | 2 | 14 | 48 | 57 | 68 | 57 | 41 | 14 | 18 | |
| Rank | 3- | 7 | 9- | 13- | 2- | 13- | 11- | 6 | 3- | 8 | 11- | 8 | 11- | 9- | |

N̥

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1318-1 | n̥dhos under | 1 | 2 | 3 | | 5 | | | 8 | | 10 | | | 13 | | 7 |
| 1319-2 | n̥si- dirt, dirty coloured | 1 | | | | 5 | | | | | | | | | | 2 |
| 1320-3 | n̥si-s sword | 1 | 2 | | | | | | 8 | | | | | | | 3 |

Totals for N - 3

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % of 3 | 100 | 67 | 33 | 0 | 67 | 0 | 0 | 67 | 0 | 33 | 0 | 0 | 33 | 0 |
| Rank | 1 | 2- | 5- | 8- | 2- | 8- | 8- | 2- | 8- | 5- | 8- | 8- | 5- | 8- |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1321-1 | o to, with + 420 | | | | 4 | | | | | | | | | | | 1 |
| 1322-2 | ō (exclamation) + 421 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1323-3 | obhel- to sweep | | | 3 | | 5 | | | | | | | | | | 2 |
| x | obhi + 423 | | | | | | | | | | | | | | | |
| 1324-4 | 1. od- to smell + 1325 | | | 3 | | 5 | | 7 | 8 | ? | 10 | 11 | 12 | | | 7 |
| 1325-5 | 2. od- aversion + 1324 | | | 3 | | 5 | | | 8 | | 10 | | | | 14 | 5 |
| 1326-6 | ŏd(e)go- stem | 1 | | | | | | | | ? | | 11 | | | | 2 |
| 1327-7 | ōg- to grow; fruit | | | ? | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| x | oi- + 422 | | | | | | | | | | | | | | | |
| 1328-8 | oid- to swell | 1 | 2 | 3 | | 5 | ? | | | | 10 | 11 | 12 | | | 7 |
| x | oi-no- + 422 | | | | | | | | | | | | | | | |
| x | oiu̯a- + 437 | | | | | | | | | | | | | | | |
| 1329-9 | ok- lofty + 1332 | | | | | 5 | | | | | 10 | | | | | 2 |
| 1330-10 | ok̂to(u) eight + 44 | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 1331-11 | ōk̂ú-s quickly + 44 | 1 | 2 | | | 5 | | | 8 | 9 | | | ? | | | 5 |
| 1332-12 | ok$^{u}_{\wedge}$- to see + 1329 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1333-13 | ol-(e)- to destroy | | | | | 5 | | | 8 | | | | | | 14 | 3 |
| 1334-14 | om- raw, coarse, bitter | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 10 |
| 1355-15 | om(e)so-s shoulder | 1 | | 3 | | 5 | | | 8 | | 10 | | | 13 | | 6 |
| 1336-16 | omə- to proceed energetically | 1 | 2 | | | 5 | | | | | 10 | | | 13 | | 5 |
| 1337-17 | ond- stone, rock | 1 | 2 | | | | | | | 9 | | | | | | 3 |
| 1338-18 | oner- dream | | | 3 | | 5 | | 7 | | | | | | | | 3 |
| 1339-19 | ong- coal | 1 | 2 | | | | | | | 9 | | 11 | 12 | | | 5 |
| 1340-20 | ong$^{u}_{\wedge}$- to anoint | 1 | | 3 | | | | | 8 | 9 | 10 | 11 | | | | 6 |
| 1341-21 | ono- to revile, abuse | | 2 | | | 5 | | | | 9 | | | | | | 3 |
| 1342-22 | onogh- finger- (toe-)nail | 1 | 2 | ? | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1343-23 | 1. op- to work, bring about | 1 | 2 | | | 5 | | | 8 | ? | 10 | | | | 14 | 6 |
| 1344-24 | 2. op- to choose | | | | | 5 | | | 8 | | | | 12 | 13 | | 4 |
| x | opi + 437 | | | | | | | | | | | | | | | |
| 1345-25 | ōr- to talk, call + 100 | 1 | | | | 5 | | | 8 | | | ? | 12 | | 14 | 5 |
| 1346-26 | orbho- orphan(ed) | 1 | | 3 | | 5 | | | 8 | 9 | 10 | | 12 | | ? | 7 |
| 1347-27 | oreu̯- bowel, intestine? | | | | | 5 | | | 8 | | | | | | | 2 |
| 1348-28 | orĝhi- testicle | | 2 | 3 | | 5 | | 7 | | 9 | | 11 | | | | 6 |
| x | org- + 1402? | | | | | | | | | | | | | | | |
| 1349-29 | ort- vine? | | | 3 | | | | 7 | | | | | | | | 2 |
| 1350-30 | ōs ash-tree | | | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1351-31 | ost(h)- bone | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | | | | | 14 | 8 |
| 1352-32 | oug- cold | ? | ? | 3 | | | | | | 9 | | 11 | | | | 3 |
| 1353-33 | ō(u̯)i̯-om egg +131 | | 2 | 3 | | 5 | | | 8 | 9 | ? | | 12 | | | 6 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1354-34 | ǫ́u̯i-s sheep | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1355-35 | 1. ōus- mouth | 1 | 2 | | | | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 1356-36 | 2. ōus- ear | | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1357-37 | ozdo-s branch | | | 3 | | 5 | | | | | 10 | | | | | 3 |
| 1358-38 | ozgho- bud, twig? | | 2 | | | 5 | | | | | | | | | | 2 |

Totals for O - 38

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19 | 17 | 20 | 3 | 29 | 1 | 11 | 22 | 20 | 20 | 17 | 16 | 5 | 6 | = 206 |
| % of 38 | 50 | 45 | 53 | 8 | 76 | 3 | 3 | 29 | 58 | 53 | 45 | 42 | 13 | 16 | |
| Rank | 6 | 7- | 3- | 13 | 1 | 14 | 10 | 2- | 3- | 3- | 7- | 9 | 12 | 11 | |

P

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1359-1 | pā- to feed + 1396 | | | 3 | | 5 | | | 8 | 9 | 10 | | 12 | 13 | 14 | 8 |
| 1360-2 | pă̄k- to fix + 1449 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | 12 | | | 7 |
| 1361-3 | pă̄n- woven fabric + 1697, 1700, 1708, 1724 | | | | | 5 | | | 8 | | 10 | | | | | 3 |
| 1362-4 | pando-s crooked + 1419 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1363-5 | pank- to swell + 140 | | | | | | | | 8 | | | | 12 | | | 2 |
| 1364-6 | pap(p)a food, father (child's lang) + 91,1427 | 2 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 1365-7 | pă̄r- to show, be visible | | | | | 5 | | | 8 | | | | | | | 2 |
| 1366-8 | parīkā concubine | | 2 | | | | | | | 9 | | | | | | 2 |
| 1367-9 | pāsó-s relative | | | | | 5 | | | 8 | | | | | | | 2 |
| 1368-10 | pasto- firm | 1 | | 3 | | | | | | | 10 | | | | | 3 |
| 1369-11 | paus- free, loose | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 1370-12 | pāuson- name of god + 158 | 1 | | | | 5 | 6 | | | ? | | | | | | 3 |
| 1371-13 | 1. pĕ̄d- to hold, grasp | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 1372-14 | 2. pĕ̄d- foot | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1373-15 | (peg-) shoulder, hip | 1 | | | | | | | 8 | | | 11 | 12 | 13 | | 5 |
| 1374-16 | pē(i)- to hurt | 1 | 2 | 3 | | 5 | | | 8 | | 10 | | | | | 6 |
| 1375-17 | pei̯(ə)- to be fat, swarm + 1381 | 1 | 2 | | | 5 | | ? | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1376-18 | 1. peig- to make distinguishing marks with cuts or colours | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | 13 | | 8 |
| 1377-19 | 2. peiĝ- to be hostile | 1 | | | | | 6 | | 8 | | 10 | 11 | | | | 5 |
| 1378-20 | pei-m(i)- swift, rapid | | | | | | | | | 9 | 10 | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1379-21 | 1. (peis-?) to trample | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1380-22 | 2. peis- to blow | 1 | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1381-23 | peisk- fish + 1375 | | | | | | | | 8 | 9 | 10 | | 12 | | | 4 |
| 1382-24 | 1. pe$\hat{k}$- to make pretty, contented | | | | | | | | | ? | 10 | 11 | | | | 2 |
| 1383-25 | 2. pe$\hat{k}$- to pluck wool or hair + 1387, 1440 | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | | | | 8 |
| 1384-26 | pe$k^{u}$- to cook | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1385-27 | 1. pel- to pour + 1442, 1444 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1386-28 | 2a. pel- to set in motion 1387, 1388 | | | | | 5 | | | 8 | 9 | 10 | | | | | |
| | 2b. pel- dust, meal (2a + following) | 1 | | | | | | | | | | 11 | 12 | | | 7 |
| 1387-29 | 3a. pel- to fold + 1386 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | | | | |
| | 3b. pel- to hide; skin + 1114 (3a + following) | | | | | | | | | | | 11 | 12 | | | 10 |
| 1388-30 | 4. pel- vessel + 1386 | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 1389-31 | 5. pel- to sell, earn | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 1390-32 | 6. pel- grey (dull colours) | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1391-33 | 7. pel- to burn, be warm | | | | | | | | | 9 | 10 | ? | 12 | | | 3 |
| 1392-34 | pel$\mathfrak{a}$- broad, flat + 1435, 1436, 1437, 1446 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 11 |
| 1393-35 | peli-s- rock | 1 | | | | 5 | 6 | | | 9 | 10 | | | | | 5 |
| 1394-36 | pel$\hat{k}$- to turn | | | | | | | | | 9 | 10 | | 12 | | | 3 |
| 1395-37 | pelpo- made of wood? | 1 | | | | | | | 8 | | | | | | | 2 |
| 1396-38 | 1. pen- to feed + 1359 | | | | | | | | 8 | | ? | 11 | | | | 2 |
| 1397-39 | 2. pen- mud, swamp | 1 | | | | | 6 | | | 9 | 10 | 11 | | | | 5 |
| 1398-40 | pen$k^{u}$e five + 1449? | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1399-41 | pent- to tread, go | 1 | 2 | 3 | | 5 | | | | | 10 | 11 | 12 | | | 7 |
| 1400-42 | 1. per- to spray + 1409, 1461, 1698, 1702, 1718, 1719, 1720, 1721, 1722, 1723, 1731 | 1 | 2 | | | 5 | ? | | | | 10 | 11 | 12 | | 14 | 7 |
| 1401-43 | 2. per- passing beyond + 1466 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 12 |
| 1402-44 | 3. per- to hit + 1404 | 1 | 2 | 3 | | ? | | 7 | 8 | 9 | | 11 | 12 | | ? | 8 |
| 1403-45 | perd- to break wind + 231 | 1 | 2 | | | 5 | | 7 | | 9 | 10 | 11 | 12 | | | 8 |
| 1404-46 | 1. perg- pole, stem + 1402 | | | | | | | | ? | | 10 | 11 | 12 | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1405-47 | 2. perg- fear | | | | | | | | | | 10 | | | ? | | 1 |
| 1406-48 | 1. perk- to fill (up)? | 1 | | | | | | | | 9 | | | | | | 2 |
| 1407-49 | 2. (perk-) glowing ash | | | | | | | | | 9 | | 11 | | | | 2 |
| 1408-50 | 1. perk̂- rib(-box), breast | 1 | 2 | | | | | | | | | 11 | 12 | | | 4 |
| 1409-51 | 2. perk̂- speckled + 1400 | 1 | | | ? | 5 | 6 | | ? | 9 | 10 | | | | | 5 |
| 1410-52 | 3. perk̂- to rip up, open + 1453 | 1 | | | | | | | 8 | 9 | 10 | 11 | | | | 5 |
| 1411-53 | 4. perk̂- to ask, request | 1 | 2 | 3 | | | 6 | | 8 | 9 | 10 | 11 | | 13 | | 9 |
| 1412-54 | perk$^{u}_{\breve{u}}$-s oak | 1 | | | | | 6 | | 8 | 9 | 10 | 11 | | | | 6 |
| 1413-55 | pers- to spray | 1 | 2 | | | | | | | | 10 | 11 | 12 | 13 | 14 | 7 |
| 1414-56 | persnā heel | 1 | 2 | | | 5 | | | 8 | | 10 | | | | 14 | 6 |
| 1415-57 | perth- pole, stick | | | 3 | | 5 | | | ? | | | | ? | | | 2 |
| 1416-58 | 1. pĕs- to blow + 1417 | ? | | | | | | | | | 10 | | 12 | | | 2 |
| 1417-59 | 2. pēs- dust, sand + 1416 | 1 | 2 | | | | | | | | | | 12 | | | 3 |
| 1418-60 | 3. pes- penis | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 1419-61 | 1. pet- to stretch out (especially arms) + 1362 | | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | | 14 | 7 |
| 1420-62 | 2. pet- to tumble down on | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | | 14 | 9 |
| 1421-63 | 1. peu- to purify | 1 | 2 | | | ? | | | 8 | 9 | 10 | | | | | 5 |
| 1422-64 | 2. peu- to explore | | | | | 5 | | | 8 | | | | 12 | | | 3 |
| x | 3. peu- + 1471 | | | | | | | | | | | | | | | |
| 1423-65 | pēu- to hit; sharp | | | | | ? | | | 8 | | 10 | 11 | | | | 3 |
| 1424-66 | peuk̂- to stab; box | | | | 4 | 5 | 6 | | 8 | 9 | 10 | 11 | | | | 7 |
| x | peu - + 1472 | | | | | | | | | | | | | | | |
| 1425-67 | peu̯ōr fire | | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | 13 | 14 | 8 |
| 1426-68 | pezd- to cause a wind to blow softly + 231 | | | | | 5 | | | 8 | | | 11 | 12 | | | 4 |
| 1427-69 | pəté(r) father + 1364, or 1450 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | | 13 | | 8 |
| 1428-70 | pid- to bear (children) | | | | | | | | | 9 | 10 | | | | | 2 |
| 1429-71 | pik(h)o- lumpy; a knot? | | 2 | | | | | | | | | 11 | | | | 2 |
| 1430-72 | pi-lo- hair | | | | | 5 | | | 8 | | | | 12 | | | 3 |
| 1431-73 | pi-n- piece of wood + 1699 | 1 | | | | 5 | | | | | 10 | | 12 | | | 4 |
| 1432-74 | pĭp(p)- to squeak | 1 | | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1433-75 | pīzdā- female pudenda +231 | | | | | | | 7 | | | | 11 | 12 | | | 3 |
| 1434-76 | plab- to prattle | | | | | | | | ? | 9 | 10 | | | | | 2 |
| 1435-77 | 1. plā-k broad, flat + 1392 | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 7 |
| 1436-78 | 2. plāk- to hit + 1392 | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1437-79 | plăt- broad, flat + 1392 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1438-80 | plē- to split off + 1441 | | | | | | | | | | 10 | 11 | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1439-81 | plēi- bald, naked + 1704, 1706, 1728 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1440-82 | plek- to plait + 1383 | 1 | 2 | | | 5 | | 7 | 8 | | 10 | | 12 | | | 7 |
| 1441-83 | plēk- to rip off + 1438 | | | | | | | ? | | | 10 | 11 | | | | 2 |
| 1442-84 | pleu- to run, flow + 1385 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1443-85 | pleuk- flock, feather | | | | | | | | | | 10 | 11 | | | | 2 |
| 1444-86 | pl(e)u-mon- lung + 1385 | 1 | | | | 5 | | | 8 | | | 11 | 12 | | | 5 |
| 1445-87 | pleus- to pull, pluck out | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 1446-88 | plәi- to parade, show off + 1392 | | | | | 5 | | | 8 | | | 11 | | | | 3 |
| 1447-89 | plouto- sth. made of boards or sticks | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 1448-90 | pneu- to pant, breathe | | | | | 5 | | | | | 10 | | | | | 2 |
| 1449-91 | pŋksti- fist? + 1360 or 1398 | | | | | | | | | | 10 | | 12 | | | 2 |
| 1450-92 | 1. pō(i)- to pasture and protect cattle + 1427 | 1 | 2 | | | 5 | | | | | 10 | 11 | | | | 5 |
| 1451-93 | 2. pō(i)- to drink | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | | 11 | 12 | | | 9 |
| 1452-94 | polo- swollen, thick | | ? | | | | | | 8 | | ? | | 12 | | | 2 |
| 1453-95 | porko-s pig(let) + 1410 | | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1454-96 | pos directly next to, behind, in front of + 94 | 1 | 2 | 3 | | 5 | | ? | 8 | | | 11 | 12 | | | 7 |
| 1455-97 | po-ti opposite, towards | | 2 | | | 5 | | | | | | | | | | 2 |
| 1456-98 | poti-s master of the house, lord, husband | 1 | 2 | | | 5 | | 7 | 8 | | 10 | 11 | 12 | 13 | 14 | 10 |
| 1457-99 | pōu- small | | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 8 |
| 1458-100 | pougo- clear, pure | | | | | | | | | 9 | | | 12 | | | 2 |
| 1459-101 | prā- to bend? | | | | | | | | 8 | 9 | | ? | | | | 2 |
| 1460-102 | prāi- to like; spare | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | | | 7 |
| 1461-103 | preg- greedy, violent + 1400 | | | | | | | | | | 10 | | 12 | | | 2 |
| 1462-104 | prep- to catch sight of | | | 3 | | 5 | | | | 9 | 10 | | | | | 4 |
| 1463-105 | pret- to understand | | | | | | | | | 9 | 10 | 11 | | 13 | | 4 |
| 1464-106 | preu- to jump, hop | 1 | | | | | | | | | 10 | | 12 | | | 3 |
| 1465-107 | preus- to freeze; burn | 1 | | | | | | 7 | 8 | | 10 | | | | | 4 |
| 1466-108 | prīs- to reduce to small pieces? | | | | | 5 | | 7 | | | | | | | | 2 |
| x | pro- + 1401 | | | | | | | | | | | | | | | |
| 1467-109 | prōkto- backside, rump | | | 3 | | 5 | | | | | | | | | | 2 |
| 1468-110 | ? pŗso- garlic, leek (loan?) | | | | | 5 | | | 8 | | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1469-111 | pster- to sneeze | | | 3 | | 5 | | | 8 | 9 | | | | | | 4 |
| 1470-112 | ptel(e)i̯a type of tree? | | | | | 5 | 6 | | 8 | | | | | | | 3 |
| 1471-113 | 1. pŭ- to blow up + 158 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1472-114 | 2. pŭ- to rot, stink | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | | | 8 |
| x | 3. pŭ- + 1457 | | | | | | | | | | | | | | | |
| 1473-115 | 1. pŭk- thick-haired | 1 | | | | | | | | | 10 | 11 | 12 | | | 4 |
| 1474-116 | 2. pŭk- to press together | | 2 | | | 5 | | 7 | | | | | | | | 3 |
| 1475-117 | pu-lo- stiff hair | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| 1476-118 | pū-ro- grain, kernel | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |

Totals for P - 118

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 59 | 44 | 30 | 1 | 68 | 11 | 21 | 68 | 51 | 83 | 66 | 59 | 14 | 12 | = 587 |
| % of 118 | 50 | 37 | 25 | 1 | 58 | 9 | 18 | 58 | 43 | 70 | 56 | 50 | 12 | 10 | |
| Rank | 5- | 8 | 9 | 14 | 2- | 13 | 10 | 2- | 7 | 1 | 4 | 5- | 11 | 12 | |

Ph

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1477-1 | phŏl- to fall | | | 3 | | | | | | | 10 | 11 | | | | 3 |

Totals for Ph - 1

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| % of 1 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 |
| Rank | 4- | 4- | 1- | 4- | 4- | 4- | 4- | 4- | 4- | 1- | 1- | 4- | 4- | 4- |

R

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1478-1 | rabh- to be in a rage + 1048 | | | | | | | | 8 | ? | | | | 13 | | 2 |
| 1479-2 | ?rāp- rape (vegetable) (IE?) | | | | | 5 | | | 8 | ? | 10 | 11 | 12 | | | 5 |
| 1480-3 | rās̆- to (re)sound | 1 | | | | | | | | | 10 | | | | | 2 |
| x | 1. rē- + 96 | | | | | | | | | | | | | | | |
| x | 2. rē- + 481 | | | | | | | | | | | | | | | |
| x | 3. rē- + 492 | | | | | | | | | | | | | | | |
| x | 4. rē- + 493 | | | | | | | | | | | | | | | |
| 1481-4 | 5. rē- dark | 1 | | | | | | | | | 10 | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | 6. re- + 1493 | | | | | | | | | | | | | | | |
| 1482-5 | 1. rebh- to move, hurry about + 479 | | 2 | | | | | | | 9 | 10 | | | | | 3 |
| 1483-6 | 2. rebh- to vault | | | | | 5 | | | | | 10 | | 12 | | | 3 |
| x | red- + 484 | | | | | | | | | | | | | | | |
| 1484-7 | 1. rēd- to cheer up | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1485-8 | 2. rēd- to scrape, gnaw | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 1486-9 | 1. reg- to dye? | 1 | | | | 5 | | | | | | | | | | 2 |
| 1487-10 | 2. reg- to see? | | | | | | | 7 | | | | 11 | | | | 2 |
| 1488-11 | 1. reĝ- straight + 1499 | 1 | 2 | 3 | ? | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1489-12 | 2. reĝ- damp | | | | | | | 7 | 8 | | 10 | 11 | | | | 4 |
| 1490-13 | regᵘos- darkness + 483 | 1 | | 3 | | 5 | | | | | 10 | | | ? | | 4 |
| 1491-14 | 1. rei- to scratch + 1498 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1492-15 | 2. rei- striped in bright colours, spotted | 1 | | | | | | | | 9 | 10 | 11 | 12 | | | 5 |
| 1493-16 | 3. rei- to scream + 1495, 1516 | 1 | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1494-17 | 4. rei- possession, thing | 1 | 2 | | | | | | 8 | | | | | | | 3 |
| x | 5. rei- + 1496 | | | | | | | | | | | | | | | |
| x | 1. rēi- + 96 | | | | | | | | | | | | | | | |
| x | 2. rēi- + 98 | | | | | | | | | | | | | | | |
| 1495-18 | reibh- to (re)sound? + 1493 | 1 | | | | | | | | | | 11 | | | | 2 |
| 1496-19 | reid- to lean against, support + 1500, 1503, 1507 | | | | | 5 | | | 8 | | | | | | | 2 |
| 1497-20 | reidh- to go (in a vehicle) | | | | | 5 | | | | 9 | 10 | 11 | | | | 4 |
| 1498-21 | reig- to tie + 1491 | | | | | | | | | 9 | 10 | | | | | 2 |
| 1499-22 | (reiĝ-) to stretch out + 1488 | | | | | | | | | 9 | 10 | 11 | | | | 3 |
| x | reiᵊ- + 479 | | | | | | | | | | | | | | | |
| 1500-23 | reik- to stretch, totter + 1496 | | | | | | | | | | 10 | 11 | | | | 2 |
| 1501-24 | rei-r(ēi)- to quake, | 1 | | | | | | | | | 10 | | | | | 2 |
| 1502-25 | rēito- joint, shoulder of animals | | | 3 | | | | | | | | 11 | 12 | | | 3 |
| 1503-26 | 1. rek- to tower up + 1496 | | | | | | | | | | 10 | 11 | | | | 2 |
| 1504-27 | 2. rĕk- to arrange | 1 | | | | | | | | | 10 | | 12 | 13 | | 4 |
| 1505-28 | rek̂- to bind? | 1 | | | | | | | | | 10 | | | | | 2 |
| 1506-29 | rek̂ʃh- to injure + 1528 | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 1507-30 | rem- to rest + 1496 | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | | 13 | | 7 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1508-31 | remb- to hack, hoe | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1509-32 | rendh- to rip (to pieces) | 1 | | | | | | | | | 10 | | | | | 2 |
| 1510-33 | rent- thing? | 1 | | | | | | | | 9 | | 11 | | | | 3 |
| 1511-34 | rep- to grab | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 7 |
| 1512-35 | 1. rēp- to crawl | | | | | | | | 8 | | 10 | 11 | ? | | | 3 |
| 1513-36 | 2. rēp- stake, beam | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| x | rēs- + 489 | | | | | | | | | | | | | | | |
| 1514-37 | ret(h)- to run, roll | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | | | | 6 |
| 1515-38 | rēt- pole, stick, stem | | | | | | | | ? | | 10 | | 12 | | | 2 |
| 1516-39 | 1. reu- to bellow + 1493 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1517-40 | 2. reu- to rip up, dig + 479 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| x | 3. reu- + 479 | | | | | | | | | | | | | | | |
| x | 4. reu- + 490 | | | | | | | | | | | | | | | |
| 1518-41 | reu-b to belch | | 2 | 3 | | 5 | | ? | 8 | | 10 | 11 | 12 | | | 7 |
| 1519-42 | reudh- red | 1 | 2 | ? | | 5 | ? | | 8 | 9 | 10 | 11 | 12 | 13 | | 9 |
| 1520-43 | reugh-men- cream? | | 2 | | | | | | | | 10 | | | | | 2 |
| 1521-44 | reus- elm | | | | | | | | | 9 | ? | | | | | 1 |
| 1522-45 | reu-smen- to ruminate; throat | 1 | | | | | | | 8 | 9 | | | | | | 3 |
| 1523-46 | reuto- stomach of animal, intestine | | 2 | | | | | | | | 10 | | | | | 2 |
| 1524-47 | reu̯- to open | | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | 13 | | 7 |
| 1525-48 | rezg- to weave, plait | 1 | | | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| x | roi-no + 1491 | | | | | | | | | | | | | | | |
| x | rughio + 2044 | | | | | | | | | | | | | | | |
| 1526-49 | ru(k)- fabric, spun yarn | | | | | | | | | 9 | 10 | | | | | 2 |

Totals for R - 49

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 24 | 13 | 4 | 0 | 15 | 1 | 3 | 19 | 20 | 38 | 27 | 18 | 6 | 0 | = 188 |
| % of 49 | 49 | 27 | 8 | 0 | 31 | 2 | 6 | 39 | 41 | 78 | 55 | 37 | 12 | 0 | |
| Rank | 3 | 8 | 10 | 13- | 7 | 12 | 11 | 5 | 4 | 1 | 2 | 6 | 9 | 13- | |

R̥

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1527-1 | r̥ksā fetlock joint of hooved animals + 1092 | 1 | | | | | | | | | | ? | | | | 1 |
| 1528-2 | r̥kʂo-s bear + 1506 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | | | | | ? | 7 |

Totals for R - 2

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| % of 2 | 100 | 50 | 50 | 0 | 50 | 0 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 |
| Rank | 1 | 2- | 2- | 8- | 2- | 8- | 2- | 2- | 2- | 8- | 8- | 8- | 8- | 8- |

S

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1529-1 | sā- enough + 1537 | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1530-2 | sāg- to scent out | | | | | 5 | | | 8 | 9 | 10 | | | | 14 | 5 |
| 1531-3 | sāi- pain, illness | ? | | | | 5 | | | | 9 | 10 | 11 | | | | 4 |
| 1532-4 | saip- enclosure of thickets | | | | | 5 | | | 8 | | | | | | | 2 |
| 1533-5 | sak- to sanctify | | | | | | | | 8 | | | | | | 14 | 2 |
| 1534-6 | 1. sal- salt + 1535 | 1 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 1535-7 | 2. sal- dirty grey + 1534 | 1 | | | | | | | 8 | 9 | 10 | | 12 | | | 5 |
| 1536-8 | s̆lo- wavy | | | | | | 6 | | 8 | 9 | | 11 | | | | 4 |
| 1537-9 | sano-s healthy? + 1529 | | | | | | | | 8 | | | | | | | 1 |
| 1538-10 | sap- to taste | | 2 | 3 | | | 6 | | 8 | 9 | 10 | | | | | 6 |
| 1539-11 | sasi̯o- agricultural produce | 1 | 2 | | | | | | | 9 | | | | | | 3 |
| x | sā-ti- + 1529 | | | | | | | | | | | | | | | |
| 1540-12 | saus- dry | 1 | 2 | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 8 |
| 1541-13 | s̆au̯el- sun + 1802, 1805 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1542-14 | se- to the side, of one's own + 1578, 1785, 1804 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | | 10 | 11 | 12 | | | 10 |
| 1543-15 | sed- to sit + 1357 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1544-16 | 1. seg- to sow (seed) + 1548, 1549, 1557 | | | | | | | | 8 | 9 | | | | | | 2 |
| 1545-17 | 2. seg- to tack on, attach | 1 | 2 | | | | | | | 9 | 10 | 11 | 12 | | | 6 |
| 1546-18 | seg̑h- to hold fast | 1 | 2 | | | 5 | 6 | | | 9 | 10 | | | | | 6 |
| 1547-19 | sei- to drip + 1553, 1554 | | | | | | 6 | | | 9 | 10 | 11 | | | | 4 |
| 1548-20 | 1. sē(i)- to sieve + 1544 | | | | | 5 | | 7 | | 9 | 10 | 11 | 12 | | | 6 |
| 1549-21 | 2. sē(i)- to dispatch + 1544 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1550-22 | 3. sē(i)- to tie + 1598, 1599 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 1551-23 | sē(i)dh- to go straight at a target, aim | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 1552-24 | s̆ēik- to reach, grip | | | | | 5 | | | | | 10 | 11 | | | | 3 |

| Number | Root and T5anslation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1553-25 | seik$^{u}$- to pour out + 1547 | 1 | 2 | | | 5 | ? | | 8 | 9 | 10 | | 12 | | | 7 |
| 1554-26 | seip- to pour out + 1547 | | | | | | | | 8 | | 10 | | 12 | 13 | | 4 |
| 1555-27 | 1. sek- to run off (water) | 1 | 2 | | | 5 | | | | 9 | ? | 11 | 12 | | | 6 |
| 1556-28 | 2. sĕk- to cut + 794 | | | | | | | 7 | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1557-29 | 3. sēk- to leave behind, abate + 1544 | | | | | 5 | | | 8 | | | | | | | 2 |
| 1558-30 | 1. sek$^{u}$- to follow + 1559 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | | | 7 |
| 1559-31 | 2. sek$^{u}$- to notice + 1558 | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 |
| 1560-32 | 1. sel- living-space | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1561-33 | 2. sel- beam, board | | | | | 5 | | 7 | | | 10 | 11 | | | | 4 |
| 1562-34 | 3. sel- to take, seize | | | | | 5 | | | | 9 | 10 | | 12 | | | 4 |
| 1563-35 | 4. sel- to jump | | | 1 | | 5 | | | 8 | 9 | | 11 | 12 | | | 6 |
| 1564-36 | 5. sel- to creep, crawl | 1 | 2 | ? | | 5 | | 7 | | 9 | | 11 | | | | 6 |
| 1565-37 | 6. sel- favourable + 1694 | | | | | 5 | | | 8 | 9 | 10 | | | | | 4 |
| 1566-38 | selĝ- to let free | 1 | 2 | | | | | | | 9 | 10 | | | | | 4 |
| 1567-39 | selk- to pull + 1980, 1981 | | | 3 | | 5 | | 7 | 8 | | 10 | | | 13 | | 6 |
| 1568-40 | selos- swamp, lake | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 1569-41 | selp- fat (butter) | 1 | | | | 5 | | 7 | | | 10 | | | 13 | | 5 |
| 1570-42 | 1. sem- to draw, scoop | | | | | 5 | 6 | | 8 | 9 | | 11 | | | ? | 5 |
| 1571-43 | 2. sem- one, together | 1 | 2 | 3 | | 5 | | ? | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1572-44 | 3. sem- summer | 1 | 2 | 3 | | | | | | 9 | 10 | | | | | 5 |
| 1573-45 | sēmi- half | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 1574-46 | sen- to prepare + 1689?, 1692? | 1 | | | | 5 | | | | 9 | | | | | 14 | 4 |
| 1575-47 | sendhro- coagulated | | | | | | | | | | 10 | | 12 | | | 2 |
| 1576-48 | seng$^{u}$- to fall, sink | | | 3 | | 5 | | | | | 10 | | | | | 3 |
| 1577-49 | seng$^{u}$h- to sing + 877 | 1 | | | | 5 | | | | 9 | 10 | | | | | 4 |
| 1578-50 | seni- for oneself + 1542 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | 12 | 13 | | 8 |
| 1579-51 | senk- to burn | | | | | | | | | | 10 | | 12 | | | 2 |
| 1580-52 | sen(o)- old | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | | | | 7 |
| 1581-53 | sent- to take a direction. go | | 2 | 3 | | | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1582-54 | sep- to concern o.s. with | 1 | 2 | | | 5 | | | 8 | | | | | | | 4 |
| 1583-55 | septm̥ seven | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1584-56 | 1. ser- to stream + 1734 | 1 | 2 | | 4 | 5 | 6 | ? | 8 | 9 | | 11 | 12 | | | 9 |
| 1585-57 | 2. ser- to give shelter to, protect | | 2 | | | 5 | | | 8 | | | 11 | ? | | | 4 |
| 1586-58 | 3. ser- red(dish) | 1 | | | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 1587-59 | 4. ser- to line up | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | | | 14 | 7 |
| 1588-60 | 5. ser- sickle | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1589-61 | serk- plaited work | | | | | 5 | | | 8 | | | | | | 14 | 3 |
| 1590-62 | serp- to creep, crawl | 1 | | | | 5 | | 7 | 8 | | | | | | | 4 |
| 1591-63 | 1. seu- juice + 1787 | 1 | 2 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1592-64 | 2. seu- to bear, give birth to + 1786, 1789 | 1 | 2 | 3 | | 5 | | | | 9 | 10 | 11 | 12 | 13 | | 9 |
| 1593-65 | 3. seu- to bend, turn + 1597, 1793, 1809, 1964 | 1 | 2 | | | | | | | 9 | | 11 | 12 | | 14 | 6 |
| 1594-66 | 4. seu- to seethe | ? | 2 | | | | | | | | 10 | 11 | 12 | | | 4 |
| 1595-67 | seug- afflicted, sad, ill | | | 3 | | | | | | 9 | 10 | | | | | 3 |
| 1596-68 | seu̯ə- to leave behind? | | | | | 5 | | | | | 10 | | | | | 2 |
| 1597-69 | seu̯i̯o- left + 1593, 1793, 1809 | 1 | 2 | | | | | | | | | | 12 | | | 3 |
| 1598-70 | si̯ē(u)-ro-o brother-in-law + 1550, 1599 | 1 | | | | | | | | | | | 12 | | | 2 |
| 1599-71 | si̯ū- to sew + 1550, 1598 | 1 | | | | 5 | | | 8 | | 10 | 11 | 12 | | 14 | 7 |
| 1600-72 | skabh- to support | 1 | 2 | | | | | | 8 | | | | | | | 3 |
| 1601-73 | (s)kāi- bright + 1603 | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | | | | 6 |
| 1602-74 | (s)k(h)ai- to hit, cuff | ? | | 3 | | | | | 8 | | 10 | | | | | 3 |
| 1603-75 | sk̂āi- to shimmer dully + 1601 | 1 | 2 | | | 5 | | 7 | ? | | 10 | 11 | 12 | 13 | | 8 |
| 1604-76 | (s)kamb- to crook, bend + 803 | | | | | 5 | | | | 9 | 10 | ? | ? | | | 3 |
| x | (s)kand- + 801 | | | | | | | | | | | | | | | |
| 1605-77 | (s)k(h)ed- to split to pieces + 1556, 1607, 1617, 1635 | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 9 |
| 1606-78 | sk̂ed- to cover? | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| 1607-79 | skĕ̂i- to cut, separate + 794 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1608-80 | skĕ̂i-bh- slanting | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1609-81 | (s)kek- to jump | 1 | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 6 |
| 1610-82 | 1. (s)kel- to cut + 794 | 1 | ? | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 11 |
| 1611-83 | 2. (s)kel- to be guilty + 1613 | | | | | | | | | | 10 | 11 | | | | 2 |
| 1612-84 | 3. (s)kel- to dry out | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1613-85 | 4. (s)kel- to bend + 927 | | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 6 |
| x | 5. (s)k$^{u}$el-, (s)kel- + 846 | | | | | | | | | | | | | | | |
| 1614-86 | (s)k̂el- to jump | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 1615-87 | skhel- to stumble + 1613? | 1 | | 3 | | | | | | | | | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1616-88 | (s)ḱem- mutilated, deformed, hornless + 861 | 1 | | | | | | | | | 10 | | | | | 2 |
| 1617-89 | (s)ken-(d-) to split off + 794 | | | | | | | | | 9 | 10 | | | | | 2 |
| 1618-90 | skendh- to dive under | | | | | 5 | | | | | | 11 | | | | 2 |
| 1619-91 | (s)keng- to hobble | | 1 | | | 5 | | | | | 10 | | | | | 3 |
| 1620-92 | 1. (s)kep- to cover, hide | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 1621-93 | 2. (s)kĕp- to cut with a sharp tool, split | | 2 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1622-94 | 1. (s)ker- to wrinkle up + 991 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1623-95 | 2. (s)ker- to jump (around) + 991 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1624-96 | 3. (s)ker- to turn, bend + 991 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1625-97 | 4. (s)ker- to cut + 895 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 |
| x | 5. (s)ker- + 880 | | | | | | | | | | | | | | | |
| x | (s)kᵘer- + 1037 | | | | | | | | | | | | | | | |
| 1626-98 | sker-(d-) excrement, dung | | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 8 |
| 1627-99 | (s)kerb(h)- to turn | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1628-100 | (s)ker-dh- pitiful, small + 895 | | 1 | | | 5 | | | | | | 11 | | | | 3 |
| 1629-101 | (s)kert-s- across, straight through + 895 | | | 3 | | 5 | | | | | | 11 | 12 | | | 4 |
| 1630-102 | skēt- to jump | | | | | ? | | | 8 | | 10 | 11 | | | | 3 |
| 1631-103 | skēth- to injure, damage | | | ? | | 5 | | | | 9 | 10 | | | | | 3 |
| 1632-104 | 1. (s)keu- to get ready, carry out | | | | | 5 | | | | | 10 | | 12 | | | 3 |
| 1633-105 | 2. (s)keu- to cover | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1634-106 | 3. skĕu- to sneeze | 1 | 2 | | | | | | | | 10 | 11 | 12 | | | 5 |
| x | 4. (s)keu- + 908 | | | | | | | | | | | | | | | |
| x | 5. skĕu- + 1637 | | | | | | | | | | | | | | | |
| 1635-107 | 6. skēu-t- to cut + 794 | 1 | | | | 5 | | | ? | 9 | 10 | 11 | | | | 5 |
| 1636-108 | sḱĕu- to throw, shoot | | | | | | | | | | | 11 | 12 | | | 2 |
| 1637-109 | skeub- to shoot, throw + 1639 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1638-110 | 1. skeud- unwilling + 915 | | | | | 5 | | | | | | 11 | | | | 2 |
| 1639-111 | 2. (s)keud- to throw, shoot + 1637 | 1 | 2 | | | 5 | | 7 | | | 10 | 11 | 12 | | | 7 |
| 1640-112 | (s)keup- bunch | | | | | | | | | | 10 | | 12 | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1641-113 | (s)keut- to shrivel up | | | | | | | | | | 10 | 11 | | | | 2 |
| 1642-114 | sk̂lēk- wet; to spray + 936 | | | | | | | | | | 10 | 11 | | | | 2 |
| 1643-115 | skordho- pan, shard? | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1644-116 | skot- shadow | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1645-117 | (s)kŭ̂t- to shake + 1018 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1646-118 | (s)kᵘ̂alo-s a rather large type of fish (IE?) | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 1647-119 | skuerb(h)- to prick | | | | | | | | | 9 | | 11 | | | | 2 |
| 1648-120 | sk(h)u̯oi̯- thorn | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 1649-121 | (s)lă̂gᵘ̂- to seize, grasp | | | | | 5 | | | | | 10 | | | | | 2 |
| 1650-122 | slak- to hit, hammer | | | | | | | | | 9 | 10 | | | | | 2 |
| x | (s)leb- + 1637 | | | | | | | | | | | | | | | |
| 1651-123 | (s)lēg- slack, sloppy | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | ? | | 7 |
| x | (s)leib- + 1657 | | | | | | | | | | | | | | | |
| 1652-124 | slēgᵘ̂- to press, maltreat | | | | | 5 | | | | | | 11 | | | | 2 |
| 1653-125 | (s)leidh- slippery, to slide + 1072 | 1 | | | | 5 | | | ? | 9 | 10 | 11 | 12 | | | 6 |
| 1654-126 | (s)leig- to hit, hack | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 1655-127 | sleuk- to wind, turn | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1656-128 | (s)leu- slack, hanging | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| x | sler- + 1663 | | | | | | | | | | | | | | | |
| 1657-129 | sleub(h)- to slide + 1659 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1658-130 | (s)leug- to swallow + 1062 | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 1659-131 | (s)leûg- to slide + 1657 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1660-132 | (s)leup- to hang down slackly | | | | | | | | | | 10 | 11 | | | | 2 |
| 1661-133 | (s)lī- bluish | | | | | | | | 8 | 9 | 10 | | 12 | | | 4 |
| 1662-134 | slougo- helping, serving | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 1663-135 | (s)lŗg- (onomat) | | | | | 5 | | | 8 | | 10 | 11 | | | | 4 |
| 1664-136 | sme- truly, certainly | 1 | | | | 5 | | | 8 | | | | | | 14 | 4 |
| 1665-137 | smē- to smear | | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 6 |
| 1666-138 | smeg(h)- to taste + 1173? | | | | | | | | | | 10 | 11 | | | | 2 |
| 1667-139 | 1. (s)mei- to smile | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 8 |
| 1668-140 | 2. smēi- to carve | | | | | 5 | | | | | 10 | ? | | | | 2 |
| x | 3. smēi- + 1665 | | | | | | | | | | | | | | | |
| 1669-141 | smeit- to throw | | 2 | | | | | | 8 | | | | | | | 2 |
| 1670-142 | smek- chin, beard | 1 | | 3 | | | | 7 | ? | 9 | 10 | 11 | | | 14 | 7 |
| 1671-143 | 1. smel- to burn slowly with a lot of smoke | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1672-144 | 2. smel- grey + 1196 | | | | | 5 | | | | | | 11 | | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1673-145 | (s)mer- to think of | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1674-146 | smerd- to stink + 1229 | | | | | 5 | | | 8 | | ? | 11 | 12 | | | 4 |
| 1675-147 | smeru- grease, fat | | | | | 5 | | | 8 | 9 | 10 | | | | | 4 |
| x | smeu- + 1667 | | | | | | | | | | | | | | | |
| 1676-148 | (s)meukh- to smoke | | | 3 | | 5 | | | | 9 | 10 | 11 | 12 | | | 6 |
| 1677-149 | smog- heavy, burdensome | | | | | 5 | | | | | | 11 | | | | 2 |
| 1678-150 | snā- to flow + 462 | 1 | 2 | 3 | 4 | 5 | 6 | | 8 | 9 | 10 | | | | | 9 |
| 1679-151 | (s)nadh- to cut in | | | | | | | | | 9 | 10 | | | | | 2 |
| 1680-152 | (s)nē- to twist threads together + 1286 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1681-153 | (s)nēbh-ri- narrow, thin | | | 3 | | | | | | | 10 | | | | | 2 |
| x | sneig- + ? | | | | | | | | | | | | | | | |
| 1682-154 | sneigᵘh- to snow | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1683-155 | sneit- to cut | | | | | | | | | ? | 10 | | 12 | | | 2 |
| 1684-156 | (snēp-) to twist into a rope + 1286 | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 1685-157 | 1. (s)ner- (onomat) to growl, snarl | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1686-158 | 2. (s)ner- to turn + 1286 | 1 | 2 | 3 | | 5 | | | | | 10 | 11 | 12 | | | 7 |
| 1687-159 | (s)nerb- to cut? + 1686? | | | | | 5 | | | | | 10 | | | | | 2 |
| x | 1. sneu- + 1678 | | | | | | | | | | | | | | | |
| 1688-160 | 2. snēu- to turn + 1286 | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | 13 | | 10 |
| 1689-161 | sneubh- to woo, marry + 1574?, 1692? | | | | | 5 | | | 8 | | | | 12 | | | 3 |
| 1690-162 | 1. sneud(h)- sleepy, to slumber + 1691 | | | | | 5 | | | | | | 11 | | | | 2 |
| 1691-163 | 2. sneud(h)- fog(gy) + 1690 | | | 2 | | 5 | | | 8 | 9 | | | | | | 4 |
| 1692-164 | snusós daughter-in-law + 1574?, 1689? | 1 | | 3 | | 5 | | ? | 8 | | 10 | | 12 | | | 6 |
| 1693-165 | so(s) the, this + 1880 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | | | 13 | | 8 |
| x | soi-to- + 1550 | | | | | | | | | | | | | | | |
| 1694-166 | solo- well-kept, whole + 1565 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | | | | 13 | | 8 |
| 1695-167 | sō(u)ra calf (of leg)? | | | | | 5 | | | 8 | | | | | | | 2 |
| 1696-168 | spako- small drop | | | | | 5 | | | | | | 11 | | | | 2 |
| 1697-169 | sp(h)ē- (in words for) long, flat piece of wood + 1361 | | | | | 5 | | | | | 10 | | | | ? | 2 |
| 1698-170 | speĝ- to watch sharply + 1400 | | | | | | | | | | 10 | | 12 | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1699-171 | 1. (s)p(h)ēi- sharp, pointed piece of wood + 1431? | 1 | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | 13 | | 8 |
| 1700-172 | 2. sp(h)ei- to pull + 1361 | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1701-173 | 3. sp(h)ē(i)- to prosper + 1361 | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 1702-174 | spe$\hat{k}$- to spy, watch + 1400? | 1 | 2 | | | 5 | | 7 | 8 | | 10 | | | | | 6 |
| 1703-175 | (s)pel- loud, to speak with emphasis | | | 3 | | 5 | | | | | 10 | 11 | | 13 | | 5 |
| 1704-176 | 1. (s)p(h)el- to split (off) + 1439 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1705-177 | 2. (s)p(h)el- to glitter | 1 | | 3 | | 5 | | | 8 | ? | 10 | 11 | | | | 6 |
| 1706-178 | (s)p(h)elg- to split + 1439 | | | 3 | | 5 | | | | ? | 10 | 11 | | | | 4 |
| 1707-179 | sp(h)el$\hat{g}$h(en)- milt, spleen | 1 | 2 | 3 | | 5 | | | 8 | 9 | | | 12 | | | 7 |
| 1708-180 | 1. (s)pen-(d-) to pull + 1361 | | | 3 | | 5 | | ? | 8 | | 10 | 11 | 12 | | | 6 |
| 1709-181 | 2. (*(s)pen-) wooden pail | | | 3 | | | | | 8 | 9 | 10 | | 12 | | | 5 |
| 1710-182 | spend- to offer a drink | | | | | 5 | | | 8 | | | | | | 14 | 3 |
| 1711-183 | sp(h)e(n)d- to quiver | 1 | | | | 5 | | | | | 10 | 11 | | | | 4 |
| 1712-184 | sp(h)eng- to glitter | | | | | ? | | | | | 10 | 11 | | | | 2 |
| 1713-185 | speno- nipple, breast | 1 | 2 | 3 | | 5 | | | | 9 | 10 | 11 | | | | 7 |
| 1714-186 | 1. (s)per- spar + 1400 | | | | | 5 | | 7 | 8 | | 10 | | 12 | | | 5 |
| 1715-187 | 2. sper-(g-) name of bird esp. sparrow + 1400 | | | | | 5 | | | 8 | 9 | 10 | 11 | | 13 | | 6 |
| 1716-188 | 3. sper- to turn, wind | | | 3 | | 5 | | | 8 | | | 11 | | | | 4 |
| 1717-189 | 4. (s)p(h)er- to rip; rag | | | 3 | | 5 | | | | | 10 | | ? | | | 3 |
| 1718-190 | 1. sp(h)er- to quiver + 1400 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | | | 8 |
| 1719-191 | 2. (s)p(h)er- to strew, sow + 1400 | | | 3 | | 5 | | | | 9 | 10 | 11 | | | | 5 |
| 1720-192 | 3. sp(h)er- (in words for) balls of goat or sheep's dung - hence pill + 1400 | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1721-193 | sp(h)erd(h)- to quiver + 1718 | 1 | 2 | | | 5 | | | | | 10 | 11 | 12 | | | 6 |
| 1722-194 | (s)p(h)ereg- to quiver + 1400 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1723-195 | sper$\hat{g}$h- to hurry + 1400 | 1 | 2 | | | 5 | | | | 9 | 10 | | | | | 5 |
| 1724-196 | (s)p(h)eu-d- to press + 1361 | 2 | | | | 5 | | ? | | | 10 | 11 | | | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1725-197 | (s)pĭko- woodpecker and similar large birds | 1 | | | | | | | 8 | | 10 | 11 | | | | 4 |
| 1726-198 | (s)pingo- sparrow, finch | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 1727-199 | (s)p(h)i̯ĕu- to spit, spew | 1 | 2 | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 8 |
| 1728-200 | (s)plei- to split + 1439 | | | | | | | | | 9 | 10 | 11 | | | | 3 |
| 1729-201 | (s)pleiĝh- to spread legs | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| 1730-202 | (s)poimno- foam, spray | 1 | 2 | | | | | | 8 | | 10 | 11 | 12 | | | 6 |
| x | sprei- + 1400 | | | | | | | | | | | | | | | |
| 1731-203 | sp(h)reig- to overflow, teem + 1400 | | | | | 5 | | | | | 10 | | | | | 2 |
| 1732-204 | srakᵘ̯-to- sharp-edged | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 1733-205 | srebh- to sip, + 1818 | | | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1734-206 | sr-edh- to spout + 1584 | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1735-207 | (s)reigh- to clamber | 1 | | | | 5 | | | | | | | | | | 2 |
| 1736-208 | srenk- to snore | | | ? | | 5 | | | | 9 | | | | | | 2 |
| 1737-209 | srēno- name of part of the body, e.g. loins | | 2 | | | | | | | | | 11 | | | | 2 |
| 1738-210 | sresk- to drip? + 936 | | 2 | 3 | | | | | | | | 11 | | | | 3 |
| 1739-211 | sreu- to flow + 1584 | 1 | 2 | 3 | 4 | 5 | | | | 9 | 10 | 11 | 12 | | | 9 |
| 1740-212 | sreup- scurfy dirt on body | | | | | 5 | | | | | | | 12 | | | 2 |
| 1741-213 | srīg- cold, frost | | | | | 5 | | | 8 | | | ? | | | | 2 |
| 1742-214 | srŏ̄mo- lame | 1 | | | | | | | | | | | 12 | | | 2 |
| 1743-215 | stā- to stand + 1747, 1748 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 1744-216 | stag- to trickle | | | | | 5 | | | 8 | 9 | | | | | | 3 |
| 1745-217 | (s)tāi- to do sth. secretly, steal + 1753, 1775 | 1 | 2 | | | 5 | | | | 9 | | | 12 | | 14 | 6 |
| 1746-218 | stāi- to condense + 1745 | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1747-219 | stāk- to stand + 1743 | 1 | 2 | | | | | | 8 | | 10 | 11 | | | | 5 |
| 1748-220 | steb(h)- post + 1743 | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | | | 7 |
| 1749-221 | 1. (s)teg- to cover, roof, house | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1750-222 | 2. (s)teg- pole, stake + 1754, 1756 | | | 3 | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 1751-223 | stegh- stick, stalk | | | | | 5 | | | | | 10 | 11 | 12 | | | 4 |
| 1752-224 | (s)tei- pointed + 1750 | ? | 2 | | | | | | 8 | | ? | | | | | 2 |
| 1753-225 | stĕ̄ib(h)- stake + 1746 | 1 | | 3 | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1754-226 | (s)teig- to prick + 1750 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | | | 7 |
| 1755-227 | steigh- to stride, climb | 1 | | | | 5 | | 7 | | 9 | 10 | 11 | 12 | | | 7 |
| 1756-228 | (s)teigᵘ̯- shoulder, arm, thigh + 1750 | | | 3 | | | | | | 9 | | | 12 | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1757-229 | (s)teigʰ- to endure | 1 | | | | | | | | | 10 | 11 | | | | 3 |
| 1758-230 | 1. (s)tel- to let flow, urinate | | | ? | | 5 | | | | ? | 10 | 11 | 12 | | | 4 |
| 1759-231 | 2. stel- to stretch out, broad + 1760, 1843? | | | 3 | | | | | 8 | | | 11 | 12 | | | 4 |
| 1760-232 | 3. stel- to place + 1759, 1843? | 1 | | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1761-233 | stem- to push, thrust | | | | | | | | | | 10 | 11 | | | | 2 |
| 1762-234 | 1. (s)ten- (in words for) loud noises; to thunder, rush, drone | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1763-235 | 2. sten- narrow, to hem in | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1764-236 | 1. (s)ter- stiff, rigid + 1769, 1770, 1782, 1887 | | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1765-237 | 2. stĕr- star | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | | | | | 7 |
| 1766-238 | 3. ster- to rob, steal | | | | | 5 | | | | 9 | 10 | | | | | 3 |
| 1767-239 | 4. ster- strip; beam | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 1768-240 | 5. ster- to spread out | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1769-241 | 6. ster- unfruitful, barren + 1764 | 1 | | 3 | | 5 | | 7 | 8 | | 10 | | 12 | | | 7 |
| 1770-242 | 7. (s)ter-n- (in words for) prickly plants + 1764 | 1 | | | | 5 | | | | | 10 | | 12 | | | 4 |
| 1771-243 | 8. (s)ter- (in words for) unclear liquid; dung | | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1772-244 | sterg- to pay careful attention to | | | | | 5 | | | | 9 | | | 12 | | | 3 |
| 1773-245 | 1. (s)teu- to thrust, hit + 1912 | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1774-246 | 2. steu- to praise aloud | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 1775-247 | steuə- to become thick, coagulate + 1746 | 1 | | | | 5 | | | | | | 11 | 12 | | | 4 |
| 1776-248 | stilp- to shine, look | | | | | 5 | | | | 9 | | | | | | 2 |
| 1777-249 | stomen- mouth | | 2 | | | 5 | | | | 9 | | | | | | 3 |
| 1778-250 | storos starlings and birds with similar songs | | | | | | | | 8 | | 10 | 11 | ? | | | 3 |
| 1779-251 | 1. streig- to stop | | | | | | | | 8 | | 10 | 11 | 12 | | | 4 |
| 1780-252 | 2. streig- stiff + 1764 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1781-253 | 3. (s)treig- to hiss +1783 | | | | | 5 | | | 8 | | | | | 13 | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1782-254 | strenk- tense, tight + 1764 | | | | | 5 | | | | 9 | 10 | 11 | | | | 4 |
| 1783-255 | (s)trep- to make wild noises + 1781 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1784-256 | stru- old (man) | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 1785-257 | su- good, well + 1542 | 1 | 2 | | | 5 | | | | 9 | 10 | 11 | 12 | | | 7 |
| 1786-258 | sū-s domestic pig, sow + 1592 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1787-259 | sū-ro- sour, salty, bitter + 1591 | | | | | | | | | 9 | 10 | 11 | 12 | ? | | 4 |
| 1788-260 | 1. sūs- (onomat) to whistle (of wind) | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 1789-261 | 2. sūs- creator, producer + 1592 | 1 | | | | | | 7 | | | | | | | | 2 |
| 1790-262 | su̯ād- sweet | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | | | 7 |
| 1791-263 | su̯ard- to laugh? | | | | | 5 | | | | 9 | | | | | | 2 |
| 1792-264 | su̯ei- to whistle, pipe | 1 | ? | | | 5 | | | 8 | 9 | 10 | | 12 | | | 6 |
| 1793-265 | su̯ĕ(i)- to bend, turn + 1593 | | 2 | | | 5 | | | | 9 | 10 | 11 | | 13 | | 6 |
| 1794-266 | 1. su̯eid- to glisten + 1796 | | 2 | | | | | | 8 | | ? | 11 | | | | 3 |
| 1795-267 | 2. su̯eid- to sweat | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | | | | 9 |
| 1796-268 | su̯ēid- milk + 1794 | 1 | 2 | | | | | | | | ? | | | | | 2 |
| 1797-269 | su̯ek- to smell (good) | | | | | | | | | 9 | 10 | | | | | 2 |
| 1798-270 | su̯ekrū́- husband's mother | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1799-271 | su̯eks- six | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 12 |
| 1800-272 | s(u̯)ekᵘo-s sap, resin | | | | | 5 | | 7 | | | | 11 | 12 | | | 4 |
| 1801-273 | 1. su̯el-(k-) to swallow greedily | | 2 | | | | | | | | 10 | | | | | 2 |
| 1802-274 | 2. su̯el- to smoulder + 1541 | 1 | | ? | | 5 | | | | | 10 | 11 | | | | 4 |
| 1803-275 | 3. (su̯el-) sole of foot | | | | | 5 | | | 8 | 9 | | | | | | 3 |
| x | sᵘ̯el- + 1561 | | | | | | | | | | | | | | | |
| 1804-276 | su̯e-lo- brother-in-law + 1542 | | | | | 5 | | | | | 10 | | | | | 2 |
| 1805-277 | su̯elplo-s sulphur + 1541 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1806-278 | su̯em- to set in motion | | | | | | | | | 9 | 10 | | | | | 2 |
| 1807-279 | su̯ein- to (re)sound | 1 | 2 | | | | | | 8 | 9 | 10 | ? | | | | 5 |
| 1808-280 | (s)u̯endh- to dwindle? + 1821, 1987 | | | | | | | | | ? | 10 | | 12 | | | 2 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1809-281 | sụeng- to bend, swing + 1593 | 1 | 2 | | | | | | | 9 | 10 | | | | | 4 |
| 1810-282 | sụenk- to be heavy, pregnant | | | | | | | | | | 10 | 11 | | | | 2 |
| 1811-283 | sụento- active, healthy | | | | | | | | | | 10 | | | | | 1 |
| 1812-284 | 1. sụep- to sleep | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1813-285 | 2. sụep- to throw | 1 | | | | | | | 8 | | 10 | | 12 | | | 4 |
| 1814-286 | 1. sụer- to speak + 1815 | | | | | | | | 8 | | 10 | | 12 | | | 3 |
| 1815-287 | 2. sụer- to buzz + 1814 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 7 |
| 1816-288 | 3. sụer- stake | 1 | | | | 5 | | | 8 | | 10 | | | | | 4 |
| 1817-289 | 4. sụer- to cut, prick | | 2 | | | | | | | 9 | 10 | | 12 | | | 4 |
| x | 5. sụer- + 1992 | | | | | | | | | | | | | | | |
| 1818-290 | sụerbh- to turn | | | | | ? | | | | 9 | 10 | ? | 12 | | | 3 |
| 1819-291 | sụergh- to care, trouble | 1 | | | | | | 7 | | 9 | 10 | 11 | 12 | | | 6 |
| 1820-292 | sụesor- sister | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1821-293 | sụī- to dwindle + 1808 | | | | | 5 | | | | | 10 | | | | | 2 |
| 1822-294 | sụomb(h)o-s spongy | | | | | 5 | | | | | 10 | | | | | 2 |
| 1823-295 | sụordo-s black, dirty colours | | | | | | | | 8 | | 10 | | | | | 2 |

Totals for S - 295

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 133 | 96 | 63 | 5 | 193 | 14 | 46 | 141 | 141 | 220 | 171 | 140 | 28 | 19 | = 1410 |
| % of 295 | 45 | 33 | 21 | 2 | 65 | 5 | 16 | 48 | 48 | 75 | 58 | 47 | 9 | 6 | |
| Rank | 7 | 8 | 9 | 14 | 2 | 13 | 10 | 4- | 4- | 1 | 3 | 6 | 11 | 12 | |

T

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1824-1 | tā- to melt | | 2 | 3 | 4 | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1825-2 | tād- to act (cautiously) | | | | | 5 | | | 8 | | | | | | | 2 |
| 1826-3 | tag- to touch, seize | | | | ? | 5 | | | 8 | 9 | 10 | | | | | 4 |
| 1827-4 | tāg- to put (tidily) | | | | | 5 | | | | 9 | | 11 | | 13 | | 4 |
| 1828-5 | tak- to be silent | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 1829-6 | tāl- to turn green | | | | | 5 | | | 8 | | | 11 | | | | 3 |
| 1830-7 | 1. tap- to dip in | | | 3 | | | | | | | | | 12 | | | 2 |
| 1831-8 | 2. tap- to press down together | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1832-9 | tata- daddy | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1833-10 | taus- calm, silent | 1 | 2 | | | | | | | 9 | 10 | 11 | 12 | | 14 | 7 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | teg- + 1749 | | | | | | | | | | | | | | | |
| 1834-11 | teg- to burn | | | | | 5 | | | | | 10 | | | | | 2 |
| 1835-12 | tegu- fat, thick | | | | | | | | | 9 | 10 | | | | | 2 |
| x | tei- + 1752 | | | | | | | | | | | | | | | |
| x | teig- + 1754 | | | | | | | | | | | | | | | |
| x | teig̊- + 1756 | | | | | | | | | | | | | | | |
| 1836-13 | 1. tek- to bear, produce | 1 | | | | 5 | | | | | 10 | | | | | 3 |
| 1837-14 | 2. tek- to stretch out the hand for ... | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1838-15 | 3. tek- to weave, plait | | 2 | 3 | | | | | | | 10 | | ? | | | 3 |
| 1839-16 | tek̂- to plait | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | 14 | 9 |
| 1840-17 | tek̊- to run, flow | 1 | 2 | | | | | 7 | | 9 | 10 | 11 | 12 | 13 | 14 | 9 |
| 1841-18 | 1. tel- to lift up, weigh, balance | 1 | | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1842-19 | 2. tel- flat (ground or board | 1 | | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1843-20 | 3. tel- to be still, calm + 1759?, 1760? | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| x | 4. tel- + 1758 | | | | | | | | | | | | | | | |
| 1844-21 | telegh- to hit? + 1845 | 1 | | | | | | | | | | 11 | | | | 2 |
| 1845-22 | telek- to push + 1844 | | | | | | | | | 9 | | 11 | 12 | | | 3 |
| 1846-23 | telp- to have room | 1 | | | | | | | | 9 | | 11 | 12 | 13 | | 5 |
| 1847-24 | 1. tem- to cut | | | | | 5 | | | 8 | 9 | | 11 | 12 | | | 5 |
| 1848-25 | 2. tem- stunned | 1 | | 3 | | | | | 8 | 9 | 10 | | 12 | | | 6 |
| 1849-26 | tem(ə)- dark | 1 | 2 | | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1850-27 | temp- to stretch + 1851, 1854, 1855, 1856, 1857 | | 2 | 3 | | | | | 8 | | 10 | 11 | 12 | 13 | | 7 |
| 1851-28 | 1. ten- to stretch + 1850 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| x | 2. ten- + 1762 | | | | | | | | | | | | | | | |
| x | tend- + 1847 | | | | | | | | | | | | | | | |
| 1852-29 | tenəgos- bottom of the water | | | | | 5 | | | | | | 11 | | | | 2 |
| 1853-30 | 1. teng- to wet | | | | | 5 | | | 8 | | 10 | | | | | 3 |
| x | 2. teng- + 1882 | | | | | | | | | | | | | | | |
| 1854-31 | tengh- to pull + 1850 | | 2 | 3 | | | | | 8 | | 10 | 11 | 12 | 13 | | 7 |
| 1855-32 | 1. tenk- to pull + 1850 | | | | | | | | | | 10 | | | | | 1 |
| 1856-33 | 2. tenk- to contract + 1850 | 1 | 2 | | | | | | | 9 | 10 | 11 | 12 | | | 6 |
| 1857-34 | tens- to stretch + 1850 | 1 | 2 | | | | | | 8 | | 10 | 11 | | | | 5 |
| 1858-35 | tenu-s thin | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1859-36 | tep- to be warm | 1 | 2 | | | | | 7 | 8 | 9 | 10 | | 12 | | 14 | 8 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1860-37 | 1. ter- to quiver + 1891, 1894, 1896 | 1 | | | | | | 7 | | | | | | | | 2 |
| 1861-38 | 2. ter- tender, weak | 1 | 2 | 3 | | 5 | | 7 | 8 | | | 10 | | | | 7 |
| 1862-39 | 3. ter- to rub, bore +386 | 1 | | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 9 |
| 1863-40 | 4. ter- to get over + 1864 1871, 1884, 1901 | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | | | | 14 | 10 |
| 1864-41 | 5. ter- through + 1863 | 1 | 2 | | | | | | 8 | 9 | 10 | | | | | 5 |
| 1865-42 | 6. ter- (in words for) gnawing and boring insects + 386 | | | | | 5 | | | 8 | 9 | | | | | | 3 |
| 1866-43 | terd- to bore through + 386 | 1 | | | | | | | | ? | | 11 | 12 | | | 3 |
| 1867-44 | terg̑u- to threaten + 386 | 1 | | | | 5 | | | 8 | 9 | ? | | | | | 4 |
| 1868-45 | terk- to turn + 386 | 1 | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | 13 | | 8 |
| 1869-46 | terp- to satisfy o.s., enjoy | 1 | 2 | | | 5 | | | | | ? | 11 | | 13 | | 5 |
| 1870-47 | ters- to dry; thirst | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | | | | | 8 |
| 1871-48 | tet(e)r- to chatter (of geese etc) + 1863 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| x | 1. teu- + 1773 | | | | | | | | | | | | | | | |
| 1872-49 | 2. teu- to notice (in a friendly way) | | | | | ? | | | 8 | 9 | 10 | | | | | 3 |
| 1873-50 | tēu- to swell + 1874 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 14 |
| 1874-51 | teuk- germ, sprout, seed + 1873 | 1 | 2 | | | | | | | | 10 | | | | | 3 |
| 1875-52 | teup- to crouch down | | | | | 5 | | | | | 10 | 11 | | | | 3 |
| 1876-53 | teus- to empty | 1 | 2 | | | | | | 8 | | 10 | | 12 | | | 5 |
| 1877-54 | teu̯ə- to sift, riddle | 1 | | | | 5 | | | | | | | | | | 2 |
| 1878-55 | ti-ti (onomat) for the singing of small birds | 1 | | | | 5 | | | 8 | | | 11 | | | | 4 |
| 1879-56 | tiegu̯- shy; to step back | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| 1880-57 | 1. to- the + 1693 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| x | 2. to- + 117 and 212 | | | | | | | | | | | | | | | |
| 1881-58 | tolku̯- to talk, reveal | | | | | | | | 8 | 9 | | | 12 | | | 3 |
| 1882-59 | 1. tong- to think, feel | | | | | | | 7 | 8 | | 10 | | | 13 | | 4 |
| x | 2. tong- + 1826 | | | | | | | | | | | | | | | |
| 1883-60 | top- to reach somewhere | | | | | 5 | | | | ? | ? | 11 | | | | 2 |
| 1884-61 | tor- loud, audible + 1863 | 1 | | 3 | | 5 | | | | 9 | | 11 | 12 | | 14 | 7 |
| 1885-62 | trāgh- to pull + 386 | | | | | | | | 8 | 9 | 10 | | 12 | | | 4 |
| 1886-63 | trēb- beam structure, building | | | | | 5 | | | 8 | 9 | 10 | 11 | | | | 5 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887-64 | treg- to bring all one's strength to bear + 1764 | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1888-65 | trei- three | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 |
| 1889-66 | treisti- sulky | | | | | | | | 8 | | 10 | | | | | 2 |
| 1890-67 | trek- to pull + 386 | | ? | | | | | | | 9 | | | 12 | | | 2 |
| 1891-68 | trem- to trip, patter + 1860 | | | | | 5 | | 7 | 8 | | 10 | 11 | 12 | 13 | | 7 |
| 1892-69 | 1. trenk- to thrust, press together + 1893 | | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 1893-70 | 2. trenk- to wash + 1892 | | | | | | | | | 9 | | ? | | | | 1 |
| 1894-71 | 1. trep- to trip, trample + 1860 | 1 | 2 | | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 8 |
| 1895-72 | 2. trep- to turn (away in shame) + 1862 | 1 | | | | 5 | | | 8 | | | | | | | 3 |
| 1896-73 | tres- to quiver + 1860 | 1 | 2 | ? | | 5 | | | 8 | 9 | | 11 | | | | 6 |
| 1897-74 | trĕu- to prosper | | 2 | | | | | | | | 10 | | | | | 2 |
| 1898-75 | tr-eu-d- to squash + 386 | | | | | | | 7 | 8 | 9 | 10 | | 12 | | | 5 |
| 1899-76 | triiə̯to- wet element? | | | | | 5 | | | | 9 | | | | | | 2 |
| 1900-77 | tris- plant stem, vine | | | | | 5 | | 7 | | | | | 12 | | | 3 |
| 1901-78 | trozdos- thrush + 1863 | | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 5 |
| 1902-79 | trŭdes- leprosy + 386 | | | | | | | | | 9 | 10 | | | | | 2 |
| x | truk- + 1915 | | | | | | | | | | | | | | | |
| 1903-80 | trus- reed? | | | | | 5 | | | | | | 11 | 12 | | | 3 |
| 1904-81 | tu, tutu bird-cry | 1 | | | | 5 | | | 8 | | 10 | 11 | | | | 5 |
| 1905-82 | tŭ̆ thou, you | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 12 |
| 1906-83 | tū-lo- slow and boring in work, speech etc | | | | | | | | | | 10 | 11 | | | | 2 |
| 1907-84 | 1. tu̯ak- to embrace, bind | 1 | | | | 5 | | | | | | | | | | 2 |
| 1908-85 | 2. tu̯ak- to bathe | | | | | | | | | | 10 | 11 | | | | 2 |
| 1909-86 | tu̯akos- skin | 1 | | | | 5 | | | | | | | | | 14 | 3 |
| 1910-87 | 1. tu̯ei- to hew sharply, hit? | | | | | | | | | | 10 | 11 | | | | 2 |
| 1911-88 | 2. tu̯ĕi- to move hither and thither, shake | 1 | 2 | | | 5 | | | | | | | | | | 3 |
| x | tu̯en- + 1873 | | | | | | | | | | | | | | | |
| 1912-89 | tu̯engĥ- to close in, press on s.o. + 1773 | | 2 | | | | | | | | 10 | | | | | 2 |
| 1913-90 | 1. tu̯er- to turn, twirl | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | | | 6 |
| 1914-91 | 2. tu̯er- to hold, grasp | | | | | 5 | | | | ? | | 11 | 12 | | | 3 |
| 1915-92 | tu̯erk̂- to cut | 1 | 2 | | | 5 | | | ? | ? | | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1916-93 | tu̯ĭbh- hollow like a pipe | | | | | 5 | | | 8 | | | | | | | 2 |
| 1917-94 | tu̯ō(u)- pipe | | | | | 1 | | | 5 | | | | 12 | | | 3 |

Totals for T - 94

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 47 | 34 | 17 | 2 | 54 | 6 | 18 | 50 | 49 | 59 | 50 | 44 | 16 | 10 | = 456 |
| % of 94 | 50 | 36 | 18 | 2 | 57 | 6 | 19 | 53 | 52 | 63 | 53 | 47 | 17 | 10 | |
| Rank | 6 | 8 | 10 | 14 | 2 | 13 | 9 | 3- | 5 | 1 | 3- | 7 | 11 | 12 | |

U

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1918-1 | 1. u- (onomat) in imitation of owls etc | | | | | | | | | 9 | 10 | 11 | 12 | | | 4 |
| 1919-2 | ub- to press (down) | 1 | 2 | | | | | | | | | 11 | | | | 3 |
| 1920-3 | ŭd- up(wards) + 603 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1921-4 | udero- belly | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | | | | 6 |
| 1922-5 | ul- (onomat) howl + 56 | 1 | | | | 5 | | | 8 | 9 | | 11 | | | | 5 |
| 1923-6 | upér- over, above + 1924 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | | | 6 |
| 1924-7 | upo- below + 1923 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | 12 | | 14 | 8 |

Totals for U - 7

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 5 | 5 | 5 | 3 | 0 | 1 | = 40 |
| % of 7 | 86 | 71 | 0 | 0 | 71 | 0 | 0 | 71 | 71 | 71 | 71 | 43 | 0 | 14 | |
| Rank | 1 | 2- | 10- | 10- | 2- | 10- | 10- | 2- | 2- | 2- | 2- | 8 | 10- | 9 | |

U

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1925-1 | 1. u̯ā- to hit | | | 3 | | 5 | | | | 9 | 10 | 11 | | | | 5 |
| 1926-2 | 2. u̯ā- apart + 123 | ? | | | | | | | 8 | | | | | | | 1 |
| 1927-3 | u̯ab- to call, cry + 1938, 1939 | | | | | | | | | | 10 | | 12 | | | 2 |
| 1928-4 | u̯adh- pledge | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 1929-5 | u̯ādh- to go, stride | | | 3 | | | | | 8 | | 10 | | | | | 3 |
| 1930-6 | 1. u̯ăg- hollow lid, sheath | | | | | ? | | | 8 | | | 11 | | ? | | 2 |
| 1931-7 | 2. u̯ăg- to cry, shriek + 1932 | 1 | | | | | | | 8 | | | 11 | | | | 3 |
| 1932-8 | u̯agh- to shriek + 1931 | | | | | 5 | | | | | ? | ? | | | | 1 |
| 1933-9 | u̯ai- woe; wolf | | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | ? | | | 8 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1934-10 | u̯ăi- weak, miserable | 1 | | | | | | | | 9 | 10 | 11 | | | | 4 |
| 1935-11 | u̯ăkā cow? | 1 | | | | | | | 8 | | | | | | | 2 |
| 1936-12 | u̯al- to be strong | | | | | | | | 8 | 9 | 10 | 11 | 12 | 13 | | 6 |
| 1937-13 | u̯ank̂- beam | 1 | | | | | | | | 9 | | | | | | 2 |
| 1938-14 | 1. u̯ap- to chatter + 1927 | | | | | | | | | | 10 | 11 | | | | 2 |
| 1939-15 | 2. u̯ap- to call + 1927 | | 2 | | | ? | | | ? | | | | 12 | | | 2 |
| x | u̯asto-s- + 509 | | | | | | | | | | | | | | | |
| 1940-16 | 1. u̯āt- better; to be spiritually (intellectually) animated | ? | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 1941-17 | u̯ăt- to crook, bend + 123 | | | | | | | | 8 | | 10 | | | | | 2 |
| 1942-18 | u̯azd- wide, long | | | | | | | | 8 | 9 | | | | | | 2 |
| 1943-19 | 1. u̯ē- we + 1284 | 1 | 2 | | | | | | | | 10 | 11 | 12 | 13 | 14 | 7 |
| x | 2. u̯e- + 123 | | | | | | | | | | | | | | | |
| x | 3. u̯ē- + 128 | | | | | | | | | | | | | | | |
| x | 4. u̯e- + 121 | | | | | | | | | | | | | | | |
| x | 5. u̯e- + 122 | | | | | | | | | | | | | | | |
| 1944-20 | u̯ebh- to weave; move back and forth + 123 | 1 | 2 | | | 5 | | 7 | | | 10 | 11 | | 13 | | 7 |
| x | u̯ed- + 1946 | | | | | | | | | | | | | | | |
| 1945-21 | 1. u̯edh- to hit | 1 | 2 | | | 5 | | | | 9 | | 11 | | | | 5 |
| 1946-22 | 2. u̯edh- to lead | 1 | 2 | | | 5 | | ? | | 9 | 10 | 11 | 12 | | | 7 |
| 1947-23 | 3. u̯edh- to tie + 1985 | 1 | | | | 5 | | | | 9 | 10 | | | | 14 | 5 |
| 1948-24 | u̯eg- to weave + 2035 | 1 | | | | | | | 8 | 9 | 10 | | | | | 4 |
| 1949-25 | u̯eĝ- to be strong + 130 | 1 | 2 | | | | | | 8 | | 10 | | | 13 | | 5 |
| 1950-26 | u̯eg$^{u}$- to dampen | 1 | 2 | | | 5 | | | 8 | 9 | 10 | | | 13 | | 7 |
| 1951-27 | u̯egh- to move | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1952-28 | u̯əg- to be curved, bent + 123 | | | | | | | | 8 | 9 | | | | | | 2 |
| 1953-29 | 1. u̯ei- to turn, + 123 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1954-30 | 2. u̯ei- to wither + 1967 | | | | | | | | 8 | 9 | 10 | 11 | | | | 4 |
| 1955-31 | 3. u̯ei- to let fly at, go for + 2028 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| x | u̯eib- + 1905 | | | | | | | | | | | | | | | |
| 1956-32 | 1. u̯eid- to turn + 123 | 1 | | | | 5 | | | 8 | | | 11 | | | | 4 |
| 1957-33 | 2. u̯eid- to catch sight of, see | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1958-34 | u̯eidh- to separate (= 2025 + 359?) | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1959-35 | 1. u̯eik- to sort out + 123 | 1 | | | | | | | 8 | | 10 | | | | | 3 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1960-36 | 2. u̯eik- strong, inimicable force | | | | | | | | 8 | 9 | 10 | 11 | 12 | | | 5 |
| 1961-37 | 3. u̯eik- to happen, prove right? | | | | | 5 | | | | | | 11 | | | | 2 |
| 1962-38 | 4. u̯eik- to bend + 123 | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1963-39 | u̯eiḱ- house | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 1964-40 | u̯eip- to turn + 1593 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | | | | 7 |
| 1965-41 | 1. u̯eis- to sprout | | | | | | | | 8 | | 10 | 11 | | | | 3 |
| 1966-42 | 2. u̯eis- to turn + 123 | 1 | | 3 | | ? | | | 8 | | 10 | 11 | 12 | | | 6 |
| 1967-43 | 3. u̯eis- to flow (away) + 1994 | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 9 |
| 1968-44 | u̯ek- to bend + 123 | 1 | 2 | 3 | | | | | 8 | 9 | 10 | 11 | | | | 7 |
| 1969-45 | u̯ək- to be bent + 123 | | | | | | | | 8 | 9 | | | | | | 2 |
| 1970-46 | u̯ek- to want, wish | 1 | 2 | ? | | 5 | | | | | | | | | 14 | 4 |
| 1971-47 | u̯ekᵘ- to speak | 1 | 2 | 3 | | 5 | | | 8 | 9 | 10 | 11 | | 13 | 14 | 10 |
| 1972-48 | u̯ek-ti- thing | | | | | | | | | | 10 | | 12 | | | 2 |
| 1973-49 | 1. u̯el- to see | | | | | | | | 8 | 9 | 10 | | | | | 3 |
| 1974-50 | 2. u̯el- to want, choose + 1977 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 1975-51 | 3. u̯el- to press, crowd | 1 | | | | 5 | | | 8 | 9 | | 11 | 12 | 13 | | 7 |
| 1976-52 | 4. u̯el- (in words for) hair and wool + 1979 or 1980 | 1 | 2 | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 8 |
| 1977-53 | 5. u̯el- to deceive + 1974 | | | | | ? | | | | 9 | | 11 | | | | 2 |
| 1978-54 | 6. u̯el- warm? + 1975 | | | 3 | | | | | | | | 11 | | | | 2 |
| 1979-55 | 7. u̯el- to turn + 1975 | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1980-56 | 8. u̯el- to tear + 1567 | | | | | 5 | | | | 9 | 10 | 11 | 12 | | 14 | 6 |
| 1981-57 | 1. u̯elk- to pull + 1567 | | 2 | | | 5 | | | | | | 11 | 12 | | | 4 |
| 1982-58 | 2. u̯elk- damp | | | | | | 6 | | | 9 | 10 | 11 | 12 | | | 5 |
| 1983-59 | u̯em- to spew, vomit | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | | | | 6 |
| 1984-60 | 1. u̯en- to strive | 1 | 2 | | | | 6 | | 8 | 9 | 10 | | 12 | 13 | 14 | 9 |
| x | 2. u̯en- + 1925 | | | | | | | | | | | | | | | |
| 1985-61 | 1. u̯endh- to turn + 1947 | 1 | | 3 | | 5 | | | | | 10 | | | | | 4 |
| 1986-62 | 2. u̯endh- to wane + 1808 | | | | | | | | | | | | 12 | | | 1 |
| 1987-63 | u̯endh- hair, beard | | | | | 5 | | | | 9 | 10 | 11 | 12 | | | 5 |
| 1988-64 | u̯e-n-g- to be bent + 123 | 1 | | | | | | 7 | | | 10 | 11 | | | | 4 |
| 1989-65 | u̯e-n-gh- to be bent + 123 | | | | | | | | | | 10 | | | | | 1 |
| x | u̯e-n-k- + 123 | | | | | | | | | | | | | | | |
| 1990-66 | 1. u̯ep- water + 89 | 1 | | | | | 6 | | | 9 | | 11 | 12 | | 14 | 6 |
| 1991-67 | 2. u̯ep- to throw, strew | 1 | 2 | | | | | ? | | | | 11 | 12 | | | 4 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | u̯ep- + 128 | | | | | | | | | | | | | | | |
| 1992-68 | 1. u̯er- to tie + 1994, 1996, 2006, 2036 | 1 | | | | 5 | | 7 | ? | 9 | 10 | 11 | 12 | 13 | | 8 |
| 1993-69 | 2. u̯er- raised place | 1 | 2 | | | ? | | | 8 | 9 | 10 | 11 | 12 | ? | | 7 |
| 1994-70 | 3. u̯er- to turn, + 1992 | 1 | 2 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 11 |
| 1995-71 | 4. u̯er- to find, take | | | 3 | | 5 | | | | 9 | | 11 | 12 | | | 5 |
| 1996-72 | 5. u̯er- to shut + 1992 | 1 | 2 | | | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10 |
| 1997-73 | 6. u̯er- to speak formally | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | 14 | 8 |
| 1998-74 | 7. u̯er- to tear up, open | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | 11 | 12 | | | 9 |
| 1999-75 | 8. u̯er- to notice | | | | | 5 | | | 8 | 9 | 10 | 11 | | 13 | | 6 |
| 2000-76 | 9. u̯er- wide | 1 | 2 | | | 5 | | | | | | | | ? | | 3 |
| x | 10. u̯er- + 127 | | | | | | | | | | | | | | | |
| 2001-77 | 11. u̯er- to show friendliness | | | | | 5 | | | 8 | 9 | 10 | | 12 | | | 5 |
| 2002-78 | 12. u̯er- to burn | | | 3 | | | ? | | | | 10 | 11 | 12 | | | 4 |
| 2003-79 | 13. u̯er- squirrel, weasel | | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 2004-80 | u̯(e)rād- twig, branch | | | | | 5 | | 7 | 8 | 9 | 10 | | | 13 | | 6 |
| 2005-81 | u̯erdh- to grow | 1 | 2 | | | 5 | | 7 | | | ? | 11 | 12 | | | 6 |
| 2006-82 | 1. u̯erĝ- to shut off (or in) + 1992 | 1 | 2 | | | 5 | | | | 9 | | | | | | 4 |
| 2007-83 | 2. u̯erĝ- to be effective, do | | | 2 | 3 | 5 | | 7 | | 9 | 10 | | | | | 6 |
| 2008-84 | 3. u̯erĝ- to swarm; swell | 1 | | | | 5 | | | | 9 | | | | | | 3 |
| x | u̯erg- + 1992 | | | | | | | | | | | | | | | |
| 2009-85 | u̯er-(e)na alder, poplar | | | 3 | | | | 7 | | 9 | | | | | | 3 |
| 2010-86 | u̯ers- to trail on the ground | | | | | ? | | | 8 | | 10 | 11 | 12 | | 14 | 5 |
| 2011-87 | u̯eren- ram, sheep, lamb | 1 | 2 | 3 | | 5 | | | 8 | | | | | | | 5 |
| 2012-88 | 1. u̯es- to tarry, live, stay overnight + 120 | 1 | 2 | 3 | | 5 | 6 | | 8 | 9 | 10 | | | 13 | 14 | 10 |
| 2013-89 | 2. u̯es- to feast + 2021 | 1 | 2 | | | | | | ? | 9 | 10 | | | | 14 | 5 |
| 2014-90 | 3. u̯es- to dampen; wet | 1 | 2 | | | 5 | | | 8 | | 10 | | | | | 5 |
| 2015-91 | 4. u̯es- to stick, stab | 1 | | | | | | 7 | | 9 | 10 | 11 | ? | | | 5 |
| 2016-92 | 5. u̯es- to clothe | 1 | 2 | 3 | | 5 | | 7 | 8 | | 10 | | | 13 | 14 | 9 |
| x | 6. u̯es- + 767 | | | | | | | | | | | | | | | |
| 2017-93 | 7. u̯es- to turn, wrap, + 123 | 1 | | | | | | | | | 10 | | | | | 2 |
| 2018-94 | 8. u̯es- to buy, sell | 1 | | 3 | | 5 | | | 8 | | | | 12 | | 14 | 6 |
| x | 9. u̯es- + 132 | | | | | | | | | | | | | | | |
| 2019-95 | u̯esperos evening | | | | | 5 | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 2020-96 | u̯es-r̥ spring + 132 | 1 | 2 | 3 | | 5 | | | 8 | 9 | ? | 11 | 12 | | | 8 |

| Number | Root and Translation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Set |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2021-97 | u̯ĕsu- good + 2013 | 1 | 2 | | | ? | 6 | | | 9 | 10 | 11 | 12 | 13 | | 8 |
| 2022-98 | u̯et- year | 1 | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 14 | 12 |
| 2023-99 | 1. u̯ĭ̆- apart, in two + 1958 | 1 | 2 | | | 5 | | | 8 | | 10 | 11 | 12 | | | 7 |
| 2024-100 | 2. u̯ĭ̆- (onomat) | | | | | 5 | | | 8 | | 10 | 11 | 12 | | | 5 |
| 2025-101 | u̯idhu- tree | | | | | | | | | 9 | 10 | | | | | 2 |
| 2026-102 | u̯ī-km̥t-ī twenty (= 2024 + 311) | 1 | 2 | 3 | | 5 | | 7 | 8 | 9 | | | | 13 | | 8 |
| 2027-103 | u̯inĝ- elm + 77 | | 2 | | | | | 7 | | | 10 | 11 | 12 | | | 5 |
| 2028-104 | u̯ĭ̆ro-s man + 1955 | 1 | 2 | | | | | | 8 | 9 | 10 | 11 | | 13 | | 7 |
| 2029-105 | u̯i̯eth- to shake | 1 | | | | | | | | | 10 | | | | | 2 |
| 2030-106 | u̯lek to light, shine | 1 | | | | | | | | | | | | 13 | | 2 |
| 2031-107 | u̯lkᵘos wolf | 1 | 2 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | 10 |
| 2032-108 | u̯l̥p- (in words for) animals of prey, especially in the dog family | | 2 | 3 | | 5 | | | 8 | | | 11 | | | | 5 |
| 2033-109 | u̯obhsā wasp + 123 | | 2 | | | | | | 8 | 9 | 10 | 11 | 12 | | | 6 |
| 2034-110 | u̯ogᵘhni-s ploughshare | | | | | 5 | | | 8 | | 10 | 11 | | | | 4 |
| 2035-111 | u̯okso- wax + 1948 | | | | | | | | | | 10 | 11 | 12 | | | 3 |
| 2036-112 | u̯ōro- dizziness, madness + 1992 | | | | | 5 | | | | | 10 | | | | | 2 |
| 2037-113 | u̯ortoko- quail | 1 | | | | 5 | | | | | | | | | | 2 |
| 2038-114 | 1. u̯rāĝh- thorn | | | | | 5 | | | | 9 | | 11 | | | | 3 |
| 2039-115 | 2. u̯răĝh- to hit? | | | | | 5 | | | | | | | | | | 1 |
| 2040-116 | u̯reg- to thrust | 1 | | | | | | | 8 | | 10 | 11 | 12 | | | 5 |
| 2041-117 | u̯rēĝ- to break | | | 3 | | 5 | | ? | | | | 11 | 12 | | | 4 |
| 2042-118 | u̯ren- to splash? | | | | | 5 | | | | | | | | | ? | 1 |
| 2043-119 | (u̯reth-) to support | | ? | | | | | | | | 10 | | | | | 1 |
| 2044-120 | u̯rughi̯o- rye | | | | 4 | | | | | | 10 | 11 | 12 | | | 4 |

Totals for U̯ - 120

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 66 | 52 | 26 | 1 | 64 | 9 | 20 | 67 | 62 | 82 | 73 | 54 | 20 | 14 | = 610 |
| % of 120 | 55 | 43 | 21 | 1 | 55 | 7 | 17 | 55 | 51 | 68 | 60 | 45 | 17 | 12 | |
| Rank | 4 | 8 | 9 | 14 | 5 | 13 | 10- | 3 | 6 | 1 | 2 | 7 | 10- | 12 | |

T A B L E  T W O

The Sets and Their Distribution

List 1.

Sets Containing 14 Occurrences

Maximum Number of Sets of this Type: 1
Number of Sets of this Type Occurring: 1

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 1 | 1873 |
| | Total Number of Items | 1 | |

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List 2.

Sets Containing 13 Occurrences

Maximum Number of Sets of this Type: 14
Number of Sets of this Type Occurring: 4

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 2 | 212, 458 |
| 2. | 1 2 3 4 5 6 x 8 9 10 11 12 13 14 | 1 | 359 |
| 3. | 1 2 3 4 5 x 7 8 9 10 11 12 13 14 | 1 | 127 |
| 4. | 1 2 3 x 5 6 7 8 9 10 11 12 13 14 | 4 | 498, 1162, 1625, 1888 |
| | Total Number of Items | 8 | |

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List 3.

Sets Containing 12 Occurrences

Maximum Number of Sets of this Type: 91
Number of Sets of this Type Occurring: 11

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 6 7 8 9 10 11 12 x x | 3 | 232, 547, 732 |
| 2. | 1 2 3 4 5 6 x 8 9 10 11 12 13 x | 1 | 271 |
| 3. | 1 2 3 4 5 x 7 8 9 10 11 12 13 x | 4 | 305, 465, 1159, 1330 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 4. | 1 2 3 4 5 x 7 8 9 10 11 12 x 14 | 1 | 479 |
| 5. | 1 2 3 4 5 x 7 x 9 10 11 12 13 14 | 1 | 333 |
| 6. | 1 2 3 x 5 6 7 8 9 10 11 12 13 x | 3 | 44, 1743, 1799 |
| 7. | 1 2 3 x 5 6 7 8 9 10 11 12 x 14 | 3 | 612, 1401, 2022 |
| 8. | 1 2 3 x 5 6 x 8 9 10 11 12 13 14 | 1 | 1128 |
| 9. | 1 2 3 x 5 x 7 8 9 10 11 12 13 14 | 9 | 468, 767, 1191, 1213,1372, 1398, 1583, 1812, 1905 |
| 10. | 1 2 x 4 5 x 7 8 9 10 11 12 13 14 | 1 | 600 |
| 11. | 1 x 3 4 5 6 7 8 9 10 11 12 13 x | 1 | 1534 |
| | Total Number of Items | 28 | |

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List 4.

Sets Containing 11 Occurrences

Maximum Number of Sets of this Type: 364

Number of Sets of this Type Occurring: 14

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 x 7 8 9 10 11 12 x x | 1 | 422 |
| 2. | 1 2 3 4 5 x x 8 9 10 11 12 13 x | 1 | 367 |
| 3. | 1 2 3 4 5 x x 8 9 10 11 12 x 14 | 1 | 562 |
| 4. | 1 2 3 4 x 6 x 8 9 10 x 12 13 14 | 1 | 222 |
| 5. | 1 2 3 x 5 6 7 8 9 10 11 12 x x | 2 | 364, 473 |
| 6. | 1 2 3 x 5 6 x 8 9 10 11 12 13 x | 4 | 327, 940, 1442, 1488 |
| 7. | 1 2 3 x 5 6 x 8 9 x 11 12 13 14 | 1 | 603 |
| 8. | 1 2 3 x 5 6 x 8 x 10 11 12 13 14 | 1 | 429 |
| 9. | 1 2 3 x 5 x 7 8 9 10 11 12 13 x | 12 | 64, 311, 352, 396, 418, 451, 548, 1223, 1332, 1384, 1880, 1979 |
| 10. | 1 2 3 x 5 x 7 8 9 10 11 12 x 14 | 4 | 730, 1041, 1138, 1392 |
| 11. | 1 2 3 x 5 x 7 8 x 10 11 12 13 14 | 1 | 489 |
| 12. | 1 2 3 x 5 x x 8 9 10 11 12 13 14 | 4 | 435, 757, 1283, 1313 |
| 13. | 1 2 x x 5 6 7 8 9 10 11 12 13 x | 2 | 1591, 1994 |
| 14. | 1 x 3 4 5 x 7 8 9 10 11 12 x 14 | 1 | 1610 |
| | Total Number of Items | 36 | |

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List 5.

Sets Containing 10 Occurrences

Maximum Number of Sets of this Type: 1001

Number of Sets of this Type Occurring: 37

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 6 x x 9 10 11 12 x x | 1 | 326 |
| 2. | 1 2 3 4 5 x 7 8 9 10 11 x x x | 1 | 1334 |
| 3. | 1 2 3 4 5 x 7 8 x 10 11 12 x x | 1 | 94 |
| 4. | 1 2 3 4 5 x x 8 9 10 11 12 x x | 1 | 445 |
| 5. | 1 2 3 4 5 x x 8 9 10 11 x 13 x | 1 | 1020 |
| 6. | 1 2 3 4 x x 7 8 9 10 11 12 x x | 1 | 712 |
| 7. | 1 2 3 x 5 6 7 8 9 10 x x x 14 | 1 | 1863 |
| 8. | 1 2 3 x 5 6 7 8 x x 11 12 x 14 | 1 | 345 |
| 9. | 1 2 3 x 5 6 7 x 9 10 11 12 x x | 1 | 884 |
| 10. | 1 2 3 x 5 6 x 8 9 10 11 12 x x | 4 | 79, 1070, 1171, 1974 |
| 11. | 1 2 3 x 5 6 x 8 9 10 x 12 x 14 | 1 | 462 |
| 12. | 1 2 3 x 5 6 x 8 9 10 x x 13 14 | 2 | 297, 2012 |
| 13. | 1 2 3 x 5 x 7 8 9 10 11 12 x x | 12 | 158, 214, 695, 885, 910, 1045, 1302, 1385, 1387, 1390, 1471, 1798 |
| 14. | 1 2 3 x 5 x 7 8 9 10 x 12 13 x | 1 | 71 |
| 15. | 1 2 3 x 5 x 7 8 9 10 x x 13 14 | 1 | 1174 |
| 16. | 1 2 3 x 5 x 7 8 x 10 11 12 13 x | 1 | 1688 |
| 17. | 1 2 3 x 5 x 7 x 9 10 11 12 13 x | 1 | 694 |
| 18. | 1 2 3 x 5 x x 8 9 10 11 12 13 x | 9 | 10, 81, 96, 317, 686, 711, 1040, 1571, 1820, |
| 19. | 1 2 3 x 5 x x 8 9 10 11 12 x 14 | 5 | 424, 463, 828, 1230, 1314 |
| 20. | 1 2 3 x 5 x x 8 9 10 11 x 13 14 | 1 | 1971 |
| 21. | 1 2 3 x 5 6 7 8 x 10 11 12 x x | 1 | 1542 |
| 22. | 1 2 x 4 5 6 x 8 9 10 11 x 13 x | 1 | 444 |
| 23. | 1 2 x 4 5 x 7 8 9 10 11 12 x x | 2 | 26, 617 |
| 24. | 1 2 x 4 5 x 7 x x 10 11 12 13 14 | 1 | 641 |
| 25. | 1 2 x x 5 6 7 8 9 10 11 12 x x | 2 | 117, 2031 |
| 26. | 1 2 x x 5 6 x 8 9 10 11 12 13 x | 1 | 1849 |
| 27. | 1 2 x x 5 6 x 8 9 10 11 12 x 14 | 1 | 121 |
| 28. | 1 2 x x 5 x 7 8 9 10 11 12 13 x | 8 | 122, 1031, 1166, 1201, 1623, 1704, 1786, 1996 |
| 29. | 1 2 x x 5 x 7 8 9 10 11 12 x 14 | 1 | 1284 |
| 30. | 1 2 x x 5 x 7 8 x 10 11 12 13 14 | 2 | 1085, 1456 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 31. | 1 2 x x 5 x x 8 9 10 11 12 13 14 | 1 | 128 |
| 32. | 1 x 3 4 5 x 7 8 9 10 11 12 x x | 1 | 227 |
| 33. | 1 x 3 x 5 6 7 8 9 10 11 12 x x | 1 | 197 |
| 34. | 1 x 3 x 5 6 x 8 9 10 11 12 13 x | 1 | 1841 |
| 35. | 1 x 3 x 5 x 7 8 9 10 11 12 13 x | 2 | 314, 1210 |
| 36. | 1 x x x 5 x 7 8 9 10 11 12 13 14 | 2 | 1116, 1298 |
| 37. | x 2 3 4 5 6 x 8 9 10 11 12 x x | 1 | 1824 |
| | Total Number of Items | 76 | |

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List 6.

Sets Containing 9 Occurrences

Maximum Number of Sets of this Type: 2002
Number of Sets of this Type Occurring: 43

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 6 x 8 9 10 x x x x | 1 | 1678 |
| 2. | 1 2 3 4 5 x x 8 9 10 11 x x x | 1 | 650 |
| 3. | 1 2 3 4 5 x x x 9 10 11 12 x x | 1 | 1739 |
| 4. | 1 2 3 x 5 6 x 8 x 10 x x 13 14 | 1 | 552 |
| 5. | 1 2 3 x 5 x 7 8 9 10 11 x x x | 2 | 1125, 1795 |
| 6. | 1 2 3 x 5 x 7 8 9 x 11 12 x x | 1 | 1451 |
| 7. | 1 2 3 x 5 x 7 8 x 10 11 12 x x | 4 | 162, 827, 1605, 1998 |
| 8. | 1 2 3 x 5 x 7 8 x 10 11 x 13 x | 1 | 679 |
| 9. | 1 2 3 x 5 x 7 8 x 10 x x 13 14 | 1 | 2016 |
| 10. | 1 2 3 x 5 x 7 x 9 10 x 12 13 x | 1 | 168 |
| 11. | 1 2 3 x 5 x x 8 9 10 11 12 x x | 18 | 77, 559, 829, 880, 931, 1082, 1084, 1182, 1229, 1241, 1437, 1543, 1607, 1633, 1673, 1871, 1957, 1967 |
| 12. | 1 2 3 x 5 x x 8 9 10 11 x 13 x | 1 | 125 |
| 13. | 1 2 3 x 5 x x 8 9 10 11 x x 14 | 1 | 1420 |
| 14. | 1 2 3 x 5 x x 8 9 10 x 12 13 x | 1 | 49 |
| 15. | 1 2 3 x 5 x x 8 9 10 x 12 x 14 | 2 | 337, 1025 |
| 16. | 1 2 3 x 5 x x 8 x 10 11 12 13 x | 2 | 415, 1183 |
| 17. | 1 2 3 x 5 x x x 9 10 11 12 13 x | 1 | 1592 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 18. | 1 2 3 x x 6 x 8 9 10 11 x 13 x | 1 | 1411 |
| 19. | 1 2 3 x x x x 8 9 10 11 12 13 x | 1 | 344 |
| 20. | 1 2 x 4 5 6 7 8 9 10 x x x x | 1 | 213 |
| 21. | 1 2 x 4 5 6 x 8 9 x 11 12 x x | 1 | 1584 |
| 22. | 1 2 x 4 5 x 7 8 9 10 11 x x x | 1 | 210 |
| 23. | 1 2 x 4 5 x x 8 9 10 11 12 x x | 1 | 382 |
| 24. | 1 2 x 4 5 x x 8 9 10 11 x 13 x | 1 | 553 |
| 25. | 1 2 x 4 5 x x x 9 10 11 12 13 x | 1 | 290 |
| 26. | 1 2 x x 5 6 x 8 9 10 11 12 x x | 1 | 442 |
| 27. | 1 2 x x 5 x 7 8 9 10 11 12 x x | 12 | 536, 698, 909, 1122, 1301, 1541, 1624, 1722, 1768, 1851, 1951, 1953 |
| 28. | 1 2 x x 5 x 7 8 9 x 11 12 13 x | 1 | 363 |
| 29. | 1 2 x x 5 x x 8 9 10 11 12 13 x | 3 | 216, 696, 1519 |
| 30. | 1 2 x x 5 x x 8 9 10 11 12 x 14 | 4 | 302, 316, 1550, 1839 |
| 31. | 1 2 x x 5 x x 8 x 10 11 12 13 14 | 1 | 1317 |
| 32. | 1 2 x x x 6 x 8 9 10 x 12 13 14 | 1 | 1984 |
| 33. | 1 2 x x x x 7 8 9 10 11 12 x 14 | 1 | 1355 |
| 34. | 1 2 x x x x 7 x 9 10 11 12 13 14 | 1 | 1840 |
| 35. | 1 x 3 x 5 x 7 8 9 10 11 12 x x | 3 | 556, 1432, 1760 |
| 36. | 1 x 3 x 5 x x 8 9 10 11 12 x 14 | 2 | 893, 1701 |
| 37. | 1 x 3 x 5 x x 8 9 10 11 x 13 14 | 1 | 86 |
| 38. | 1 x x x 5 x 7 8 9 10 11 12 13 x | 1 | 1862 |
| 39. | x 2 3 x 5 x 7 8 9 10 11 12 x x | 1 | 1356 |
| 40. | x 2 x x 5 6 7 8 9 10 11 12 x x | 1 | 1621 |
| 41. | x x 3 4 5 x x 8 9 10 11 12 x 14 | 1 | 946 |
| 42. | x x 3 x 5 6 7 8 9 10 11 12 x x | 1 | 1350 |
| 43. | x x x x 5 x 7 8 9 10 11 12 13 14 | 1 | 1067 |
| | Total Number of Items | 85 | |

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List 7.

Sets Containing 8 Occurrences

Maximum Number of Sets of this Type: 3003

Number of Sets of this Type Occurring: 62

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 x x 8 9 10 x x x x | 1 | 199 |
| 2. | 1 2 3 4 5 x x 8 9 x x x 13 x | 1 | 105 |
| 3. | 1 2 3 x 5 x 7 8 9 10 x x x x | 3 | 644, 1139, 1870 |
| 4. | 1 2 3 x 5 x 7 8 9 x x x 13 x | 2 | 1694, 2026 |
| 5. | 1 2 3 x 5 x 7 8 9 x x x x 14 | 1 | 1351 |
| 6. | 1 2 3 x 5 x 7 8 x 10 11 x x x | 1 | 1383 |
| 7. | 1 2 3 x 5 x 7 8 x 10 x 12 x x | 1 | 1272 |
| 8. | 1 2 3 x 5 x 7 x 9 10 x x 13 x | 1 | 73 |
| 9. | 1 2 3 x 5 x x 8 9 10 11 x x x | 4 | 509, 1281, 1472, 1718 |
| 10. | 1 2 3 x 5 x x 8 9 10 x 12 x x | 1 | 350 |
| 11. | 1 2 3 x 5 x x 8 9 10 x x 13 x | 1 | 1427 |
| 12. | 1 2 3 x 5 x x 8 9 x 11 12 x x | 1 | 2020 |
| 13. | 1 2 3 x 5 x x 8 9 x x x 13 14 | 1 | 1215 |
| 14. | 1 2 3 x 5 x x 8 x 10 11 12 x x | 5 | 72, 420, 467, 908, 1727 |
| 15. | 1 2 3 x 5 x x x 9 10 11 12 x x | 2 | 514, 598 |
| 16. | 1 2 3 x x x 7 8 9 x 11 12 x x | 1 | 1402 |
| 17. | 1 2 3 x x x x 8 9 10 11 12 x x | 1 | 1175 |
| 18. | 1 2 3 x x x x 8 x 10 x 12 13 14 | 1 | 1029 |
| 19. | 1 2 x 4 5 x x 8 9 10 11 x x x | 1 | 505 |
| 20. | 1 2 x 4 x x x 8 9 10 11 12 x x | 1 | 275 |
| 21. | 1 2 x x 5 6 x 8 9 10 x 12 x x | 1 | 1256 |
| 22. | 1 2 x x 5 x 7 8 9 10 11 x x x | 1 | 803 |
| 23. | 1 2 x x 5 x 7 8 9 10 x x 13 x | 1 | 1693 |
| 24. | 1 2 x x 5 x 7 8 9 10 x x x 14 | 1 | 318 |
| 25. | 1 2 x x 5 x 7 8 9 x 11 x 13 x | 1 | 309 |
| 26. | 1 2 x x 5 x 7 8 x 10 11 12 x x | 2 | 1540, 1894 |
| 27. | 1 2 x x 5 x 7 8 x 10 x x x 14 | 1 | 118 |
| 28. | 1 2 x x 5 x 7 x 9 10 11 12 x x | 2 | 1218, 1403 |
| 29. | 1 2 x x 5 x 7 x x 10 11 12 13 x | 2 | 544, 1603 |
| 30. | 1 2 x x 5 x x 8 9 10 11 12 x x | 22 | 70, 132, 436, 596, 844, 905, 983, 1185,1189, 1245, 1342, 1375, 1491, 1517, 1549, 1682, 1762, 1858, 1920, 1955,1958, 1976 |
| 31. | 1 2 x x 5 x x 8 9 10 11 x 13 x | 1 | 130 |
| 32. | 1 2 x x 5 x x 8 9 10 x 12 13 x | 1 | 1578 |
| 33. | 1 2 x x 5 x x 8 9 10 x 12 x 14 | 1 | 1924 |
| 34. | 1 2 x x 5 x x 8 9 x 11 12 13 x | 1 | 759 |
| 35. | 1 2 x x 5 x x 8 x 10 11 12 13 x | 1 | 1376 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 36. | 1 2 x x 5 x x 8 x 10 11 12 x 14 | 1 | 1997 |
| 37. | 1 2 x x 5 x x x 9 10 11 12 13 x | 2 | 233, 1172 |
| 38. | 1 2 x x x 6 x x 9 10 11 12 13 x | 1 | 2021 |
| 39. | 1 2 x x x x 7 8 9 10 x 12 x 14 | 1 | 1859 |
| 40. | 1 x 3 x 5 x x 8 9 10 11 12 x x | 6 | 437, 821, 1258, 1354, 1529, 1842 |
| 41. | 1 x 3 x 5 x x 8 x 10 11 12 13 x | 1 | 1699 |
| 42. | 1 x 3 x 5 x x 8 x 10 11 12 x 14 | 1 | 1269 |
| 43. | 1 x 3 x 5 x x 8 x 10 x 12 13 14 | 1 | 113 |
| 44. | 1 x 3 x 5 x x x 9 10 11 x 13 14 | 1 | 1214 |
| 45. | 1 x x x 5 x 7 8 9 10 11 12 x x | 7 | 399, 756, 916, 1129, 1227, 1773, 1832 |
| 46. | 1 x x x 5 x 7 x 9 10 11 12 13 x | 1 | 1992 |
| 47. | 1 x x x 5 x x 8 9 10 11 12 13 x | 4 | 205, 1179, 1667, 1868 |
| 48. | 1 x x x 5 x x 8 9 10 11 12 x 14 | 1 | 846 |
| 49. | x 2 3 x 5 6 x 8 9 10 x 12 x x | 1 | 195 |
| 50. | x 2 3 x 5 x 7 8 9 10 11 x x x | 1 | 1933 |
| 51. | x 2 3 x 5 x 7 8 9 10 x x x 14 | 1 | 1203 |
| 52. | x 2 3 x 5 x 7 8 x 10 11 12 x x | 1 | 1457 |
| 53. | x 2 3 x 5 x x 8 9 10 11 12 x x | 1 | 1771 |
| 54. | x 2 x x 5 x x 8 9 10 11 12 x 14 | 1 | 1626 |
| 55. | x x 3 x 5 x 7 8 9 10 11 12 x x | 1 | 1733 |
| 56. | x x 3 x 5 x x 8 9 10 11 12 13 x | 1 | 101 |
| 57. | x x 3 x 5 x x 8 9 10 x 12 13 14 | 1 | 1359 |
| 58. | x x 3 x 5 x x 8 x 10 11 12 13 14 | 1 | 1425 |
| 59. | x x 3 x 5 6 x 8 9 10 11 x x 14 | 1 | 69 |
| 60. | x x x x 5 6 7 8 9 10 x 12 x 14 | 1 | 957 |
| 61. | x x x x 5 x 7 8 9 10 11 12 13 x | 1 | 381 |
| 62. | x x x x 5 x x 8 9 10 11 12 13 14 | 1 | 1559 |
| | Total Number of Items | 112 | |

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List 8.

Sets Containing 7 Occurrences

Maximum Number of Sets of this Type: 3482

Number of Sets of this Type Occurring: 82

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 4 5 x 7 x x 10 x x x x | 1 | 607 |
| 2. | 1 2 3 4 5 x x 8 x 10 x x x x | 1 | 294 |
| 3. | 1 2 3 x 5 x 7 8 9 x x x x x | 2 | 131, 1528 |
| 4. | 1 2 3 x 5 x 7 8 x 10 x x x x | 1 | 1816 |
| 5. | 1 2 3 x 5 x x 8 9 10 x x x x | 3 | 830, 1169, 1765 |
| 6. | 1 2 3 x 5 x x 8 9 x x 12 x x | 1 | 1707 |
| 7. | 1 2 3 x 5 x x 8 x 10 x x 13 x | 1 | 1318 |
| 8. | 1 2 3 x 5 x x 8 x x 11 12 x x | 2 | 157, 1454 |
| 9. | 1 2 3 x 5 x x 8 x x x x 13 14 | 1 | 88 |
| 10. | 1 2 3 x 5 x x x 9 10 11 x x x | 1 | 1713 |
| 11. | 1 2 3 x 5 x x x x 10 11 12 x x | 4 | 1140, 1328, 1399, 1686 |
| 12. | 1 2 3 x x x x 8 9 10 11 x x x | 1 | 1968 |
| 13. | 1 2 3 x x x x 8 x 10 11 12 x x | 1 | 38 |
| 14. | 1 2 x 4 x x 7 x x 10 11 12 x x | 1 | 221 |
| 15. | 1 2 x x 5 x 7 8 9 10 x x x x | 2 | 565, 601 |
| 16. | 1 2 x x 5 x 7 8 9 x x 12 x x | 1 | 1278 |
| 17. | 1 2 x x 5 x 7 8 9 x x x 13 x | 1 | 888 |
| 18. | 1 2 x x 5 x 7 8 x 10 x 12 x x | 1 | 1440 |
| 19. | 1 2 x x 5 x 7 8 x 10 x x 13 x | 1 | 42 |
| 20. | 1 2 x x 5 x 7 x 9 10 x x 13 x | 1 | 1221 |
| 21. | 1 2 x x 5 x 7 x x 10 11 12 x x | 1 | 1639 |
| 22. | 1 2 x x 5 x 7 x x 10 11 x 13 x | 1 | 1945 |
| 23. | 1 2 x x 5 x x 8 9 10 11 x x x | 5 | 461, 1558, 1754, 1790, 1964 |
| 24. | 1 2 x x 5 x x 8 9 10 x 12 x x | 4 | 869, 1261, 1360, 1553 |
| 25. | 1 2 x x 5 x x 8 9 10 x x 13 x | 4 | 50, 775, 1297, 1950 |
| 26. | 1 2 x x 5 x x 8 9 x 11 12 x x | 1 | 1037 |
| 27. | 1 2 x x 5 x x 8 x 10 11 12 x x | 7 | 263, 1224, 1379, 1746, 1962, 1963, 2023 |
| 28. | 1 2 x x 5 x x 8 x x x 12 13 14 | 1 | 126 |
| 29. | 1 2 x x 5 x x x 9 10 11 12 x x | 8 | 374, 400, 520, 892, 1460, 1748, 1785, 1946 |
| 30. | 1 2 x x 5 x x x 9 10 11 x 13 x | 1 | 1507 |
| 31. | 1 2 x x 5 x x x x 10 11 12 x 14 | 1 | 1400 |
| 32. | 1 2 x x 5 x x x x 10 11 x 13 14 | 1 | 211 |
| 33. | 1 2 x x x x 7 8 9 x 11 12 x x | 1 | 1181 |
| 34. | 1 2 x x x x x 8 9 10 11 12 x x | 4 | 669, 849, 1176, 1993 |
| 35. | 1 2 x x x x x 8 9 10 11 x 13 x | 2 | 769, 2028 |
| 36. | 1 2 x x x x x x 9 10 11 12 x 14 | 1 | 1833 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 37. | 1 2 x x x x x x x 10 11 12 13 14 | 2 | 1413, 1943 |
| 38. | 1 x 3 4 5 x x 8 x x 11 12 x x | 1 | 753 |
| 39. | 1 x 3 x 5 x 7 8 9 10 x x x x | 1 | 300 |
| 40. | 1 x 3 x 5 x x 8 9 10 11 x x x | 1 | 1769 |
| 41. | 1 x 3 x 5 x x 8 9 10 11 x x x | 1 | 1580 |
| 42. | 1 x 3 x 5 x x 8 9 10 x 12 x x | 1 | 1346 |
| 43. | 1 x 3 x 5 x x 8 x 10 11 12 x x | 4 | 298, 1022, 1190, 1753 |
| 44. | 1 x 3 x 5 x x 8 x 10 x 12 13 x | 1 | 169 |
| 45. | 1 x 3 x 5 x x 8 x x 11 x 13 14 | 1 | 502 |
| 46. | 1 x 3 x 5 x x x 9 10 11 12 x x | 1 | 383 |
| 47. | 1 x 3 x 5 x x x 9 x 11 12 x 14 | 1 | 1884 |
| 48. | 1 x 3 x x 6 x x 9 10 11 12 x x | 1 | 123 |
| 49. | 1 x 3 x x x 7 x 9 10 11 x x 14 | 1 | 1670 |
| 50. | 1 x x x 5 6 7 x 9 x 11 12 x x | 1 | 1198 |
| 51. | 1 x x x 5 x 7 8 9 10 11 x x x | 1 | 1511 |
| 52. | 1 x x x 5 x 7 8 9 10 x 12 x x | 1 | 906 |
| 53. | 1 x x x 5 x 7 8 x 10 11 12 x x | 3 | 141, 1120, 1196 |
| 54. | 1 x x x 5 x 7 x 9 10 11 12 x x | 1 | 1755 |
| 55. | 1 x x x 5 x x 8 9 10 11 12 x x | 18 | 201, 225, 555, 557, 868, 1002, 1059, 1072, 1073, 1092, 1308, 1322, 1386, 1516, 1651, 1680, 1749, 1815 |
| 56. | 1 x x x 5 x x 8 9 10 11 x 13 x | 1 | 867 |
| 57. | 1 x x x 5 x x 8 9 10 11 x x 14 | 1 | 1587 |
| 58. | 1 x x x 5 x x 8 9 x 11 12 13 x | 1 | 1975 |
| 59. | 1 x x x 5 x x 8 x 10 11 12 x 14 | 1 | 1599 |
| 60. | 1 x x x 5 x x x 9 10 11 12 x 14 | 1 | 1053 |
| 61. | 1 x x x x x 7 8 9 10 11 12 x x | 1 | 176 |
| 62. | x 2 3 x 5 x x 8 x 10 11 12 x x | 2 | 475, 1518 |
| 63. | x 2 3 x x x x 8 9 10 11 12 x x | 1 | 1581 |
| 64. | x 2 3 x x x x 8 x 10 11 12 13 x | 2 | 1850, 1854 |
| 65. | x 2 x x 5 6 x 8 9 x x x 13 14 | 1 | 23 |
| 66. | x 2 x x 5 x 7 8 9 10 11 x x x | 1 | 1299 |
| 67. | x 2 x x 5 x x 8 9 10 11 12 x x | 1 | 1286 |
| 68. | x 2 x x 5 x x 8 9 10 11 x x 14 | 1 | 1419 |
| 69. | x 2 x x x x 7 8 9 10 x 12 13 x | 1 | 494 |
| 70. | x 2 x x x x x 8 9 10 11 12 13 x | 1 | 1524 |
| 71. | x x 3 4 5 x x 8 9 10 x 12 x x | 1 | 788 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 72. | x x 3 x 5 x 7 8 x 10 11 12 x x | 2 | 1270, 1324 |
| 73. | x x 3 x 5 x 7 x 9 10 11 12 x x | 1 | 690 |
| 74. | x x 3 x 5 x x 8 9 10 11 12 x x | 2 | 56, 543 |
| 75. | x x 3 x 5 x x 8 9 10 11 x x 14 | 1 | 106 |
| 76. | x x 3 x 5 x x x 9 10 11 12 x 14 | 1 | 477 |
| 77. | x x x 4 5 6 x 8 9 10 11 x x x | 1 | 1424 |
| 78. | x x x 4 5 6 x x 9 10 11 12 x x | 1 | 397 |
| 79. | x x x x 5 6 7 x 9 10 11 12 x x | 1 | 483 |
| 80. | x x x x 5 x 7 8 9 10 11 12 x x | 3 | 470, 904, 1764 |
| 81. | x x x x 5 x 7 8 x 10 11 12 13 x | 1 | 1891 |
| 82. | x x x x 5 x x 8 9 10 11 12 13 x | 1 | 1435 |
| | Total Number of Items | 146 | |

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List 9.

Sets of 6 Occurrences

Maximum Number of Sets of this Type: 3003
Number of Sets of this Type Occurring: 96

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 x 5 x 7 x 9 x x x x x | 1 | 296 |
| 2. | 1 2 3 x 5 x x 8 x 10 x x x x | 1 | 1374 |
| 3. | 1 2 3 x 5 x x x 9 x x 12 x x | 1 | 741 |
| 4. | 1 2 3 x 5 x x x x 10 11 x x x | 1 | 1292 |
| 5. | 1 2 3 x 5 x x x x 10 x 12 x x | 1 | 328 |
| 6. | 1 2 3 x 5 x x x x x 11 12 x x | 1 | 729 |
| 7. | 1 2 3 x x x x 8 x 10 11 x x x | 1 | 1017 |
| 8. | 1 2 3 x x x x x 9 10 11 x x x | 1 | 611 |
| 9. | 1 2 3 x x x x x 9 x 11 12 x x | 1 | 911 |
| 10. | 1 2 x 4 5 6 x x x 10 x x x x | 1 | 393 |
| 11. | 1 2 x 4 5 6 x x x x 11 x x x | 1 | 89 |
| 12. | 1 2 x 4 5 x x x x x x 12 13 x | 1 | 172 |
| 13. | 1 2 x x 5 6 x x 9 10 x x x x | 1 | 1546 |
| 14. | 1 2 x x 5 x 7 8 x 10 x x x x | 1 | 1702 |
| 15. | 1 2 x x 5 x 7 x 9 10 x x x x | 1 | 332 |
| 16. | 1 2 x x 5 x 7 x 9 x 11 x x x | 1 | 1564 |
| 17. | 1 2 x x 5 x 7 x x x 11 12 x x | 2 | 697, 2005 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 18. | 1 2 x x 5 x x 8 9 10 x x x x | 4 | 635, 814, 1913, 1923 |
| 19. | 1 2 x x 5 x x 8 9 x 11 x x x | 1 | 1896 |
| 20. | 1 2 x x 5 x x 8 x 10 11 x x x | 5 | 391, 1242, 1601, 1921, 1983 |
| 21. | 1 2 x x 5 x x 8 x 10 x x x 14 | 2 | 1343, 1414 |
| 22. | 1 2 x x 5 x x 8 x x 11 12 x x | 1 | 725 |
| 23. | 1 2 x x 5 x x x 9 10 11 x x x | 2 | 1080, 1300 |
| 24. | 1 2 x x 5 x x x 9 10 x x 13 x | 1 | 754 |
| 25. | 1 2 x x 5 x x x 9 x 11 12 x x | 2 | 1027, 1555 |
| 26. | 1 2 x x 5 x x x 9 x x 12 x 14 | 1 | 1745 |
| 27. | 1 2 x x 5 x x x x 10 11 12 x x | 2 | 1008, 1721 |
| 28. | 1 2 x x x x 7 x 9 x 11 12 x x | 1 | 1043 |
| 29. | 1 2 x x x x x 8 9 10 11 x x x | 2 | 758, 1514 |
| 30. | 1 2 x x x x x 8 x 10 11 12 x x | 3 | 896, 1280, 1730 |
| 31. | 1 2 x x x x x x 9 10 11 12 x x | 3 | 207, 1545, 1856 |
| 32. | 1 2 x x x x x x 9 x 11 12 x 14 | 1 | 1593 |
| 33. | 1 2 x x x x x x x 10 11 12 13 x | 1 | 1264 |
| 34. | 1 x 3 x 5 x x 8 x 10 11 x x x | 1 | 1705 |
| 35. | 1 x 3 x 5 x x 8 x 10 x 12 x x | 1 | 1692 |
| 36. | 1 x 3 x 5 x x 8 x 10 x x 13 x | 1 | 1335 |
| 37. | 1 x 3 x 5 x x 8 x x x 12 x 14 | 1 | 2018 |
| 38. | 1 x 3 x 5 x x x 9 10 11 x x x | 1 | 618 |
| 39. | 1 x 3 x 5 x x x 9 x 11 x 13 x | 1 | 1195 |
| 40. | 1 x 3 x 5 x x x x 10 11 x 13 x | 1 | 58 |
| 41. | 1 x 3 x x x x 8 9 10 11 x x x | 1 | 1340 |
| 42. | 1 x 3 x x x x 8 9 10 x 12 x x | 1 | 1848 |
| 43. | 1 x 3 x x x x 8 x 10 11 12 x x | 1 | 1966 |
| 44. | 1 x 3 x x x x x 9 10 11 12 x x | 1 | 793 |
| 45. | 1 x x 4 5 x x x 9 x 11 12 x x | 1 | 1212 |
| 46. | 1 x x x 5 x 7 8 9 10 x x x x | 1 | 136 |
| 47. | 1 x x x 5 x 7 8 x 10 x 12 x x | 1 | 515 |
| 48. | 1 x x x 5 x 7 8 x 10 x 12 x x | 1 | 702 |
| 49. | 1 x x x 5 x 7 8 x 10 x x 13 x | 1 | 230 |
| 50. | 1 x x x 5 x 7 x x 10 11 12 x x | 1 | 1220 |
| 51. | 1 x x x 5 x x 8 9 10 11 x x x | 2 | 492, 823 |
| 52. | 1 x x x 5 x x 8 9 x 11 12 x x | 3 | 811, 1061, 1792 |
| 53. | 1 x x x 5 x x 8 9 x 11 12 x x | 1 | 1563 |
| 54. | 1 x x x 5 x x 8 x 10 11 12 x x | 7 | 75, 147, 513, 605, 952, 1063, 1588 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 55. | 1 x x x 5 x x x 9 10 11 12 x x | 2 | 1609, 1653 |
| 56. | 1 x x x 5 x x x 9 x 11 12 13 x | 2 | 325, 1042 |
| 57. | 1 x x x x 6 x 8 9 10 11 x x x | 1 | 1412 |
| 58. | 1 x x x x 6 x x 9 x 11 12 x 14 | 1 | 1990 |
| 59. | 1 x x x x x 7 x 9 10 11 12 x x | 2 | 1024, 1819 |
| 60. | 1 x x x x x x 8 9 10 11 12 x x | 4 | 586, 1103, 1380, 1493 |
| 61. | 1 x x x x x x 8 9 10 11 x 13 x | 1 | 748 |
| 62. | x 2 3 x 5 x 7 x 9 10 x x x x | 1 | 2007 |
| 63. | x 2 3 x 5 x 7 x 9 x 11 x x x | 1 | 1348 |
| 64. | x 2 3 x 5 x x 8 9 10 x x x x | 1 | 524 |
| 65. | x 2 3 x 5 x x 8 9 x x 12 x x | 1 | 1353 |
| 66. | x 2 3 x x 6 x 8 9 10 x x x x | 1 | 1538 |
| 67. | x 2 3 x x x x 8 9 x 11 12 x x | 1 | 510 |
| 68. | x 2 3 x x x x x x 10 11 12 13 x | 1 | 566 |
| 69. | x 2 x 4 5 6 x x x 10 x 12 x x | 1 | 357 |
| 70. | x 2 x x 5 x x x 9 10 11 x 13 x | 1 | 1793 |
| 71. | x 2 x x x x 7 x 9 10 11 12 x x | 1 | 167 |
| 72. | x 2 x x x x x 8 9 10 11 12 x x | 4 | 1453, 1892, 2003, 2033 |
| 73. | x x 3 4 5 x x x x 10 11 12 x x | 1 | 431 |
| 74. | x x 3 x 5 x 7 8 x 10 11 x x x | 1 | 886 |
| 75. | x x 3 x 5 x 7 8 x 10 x 12 x x | 1 | 1047 |
| 76. | x x 3 x 5 x 7 8 x 10 x x 13 x | 1 | 1567 |
| 77. | x x 3 x 5 x x 8 9 10 x 12 x x | 1 | 1206 |
| 78. | x x 3 x 5 x x 8 9 10 x x x 14 | 1 | 1134 |
| 79. | x x 3 x 5 x x 8 9 x 11 12 x x | 1 | 478 |
| 80. | x x 3 x 5 x x 8 x 10 11 12 x x | 3 | 137, 1665, 1708 |
| 81. | x x 3 x 5 x x x 9 10 11 12 x x | 1 | 1676 |
| 82. | x x x x 5 6 x x 9 10 11 12 x x | 1 | 1095 |
| 83. | x x x x 5 x 7 8 9 10 x x 13 x | 1 | 2004 |
| 84. | x x x x 5 x 7 8 9 10 x x x 14 | 1 | 1240 |
| 85. | x x x x 5 x 7 8 x 10 11 12 x x | 5 | 170, 674, 1076, 1105, 1613 |
| 86. | x x x x 5 x 7 x 9 10 11 12 x x | 1 | 1548 |
| 87. | x x x x 5 x x 8 9 10 11 12 x x | 10 | 152, 768, 809, 841, 843, 930, 939, 1436, 1627, 2019 |
| 88. | x x x x 5 x x 8 9 10 11 x 13 x | 2 | 1715, 1999 |
| 89. | x x x x 5 x x 8 x 10 11 12 13 x | 1 | 955 |
| 90. | x x x x 5 x x x 9 10 11 12 13 x | 2 | 1071, 1167 |
| 91. | x x x x 5 x x x 9 10 11 12 x 14 | 1 | 1980 |
| 92. | x x x x x 6 x 8 x 10 x 12 13 14 | 1 | 48 |

| No. | Pattern | Occur-rences | Item Serial Numbers |
|---|---|---|---|
| 93. | x x x x x x 7 8 9 10 11 12 x x | 3 | 1131, 1238, 1556 |
| 94. | x x x x x x 7 8 x 10 11 12 13 x | 1 | 29 |
| 95. | x x x x x x 7 8 x 10 11 12 x 14 | 1 | 1081 |
| 96. | x x x x x x x 8 9 10 11 12 13 x | 2 | 187, 1936 |
| | Total Number of Items | 151 | |

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List 10.

Sets of 5 Occurences

Maximum Number of Sets of this Type: 2002
Number of Sets of this Type Occurring: 125

| No. | Pattern | Occur-rences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 x 5 x 7 x x x x x x x | 1 | 1164 |
| 2. | 1 2 3 x 5 x x 8 x x x x x x | 3 | 351, 516, 2011 |
| 3. | 1 2 3 x 5 x x x x 10 x x x x | 1 | 1034 |
| 4. | 1 2 3 x x x x 8 9 x x x x x | 1 | 1000 |
| 5. | 1 2 3 x x x x 8 x 10 x x x x | 1 | 76 |
| 6. | 1 2 3 x x x x x 9 10 x x x x | 2 | 295, 1572 |
| 7. | 1 2 x 4 5 6 x x x x x x x x | 1 | 1287 |
| 8. | 1 2 x x 5 x 7 x 9 x x x x x | 1 | 471 |
| 9. | 1 2 x x 5 x 7 x x 10 x x x x | 2 | 320, 558 |
| 10. | 1 2 x x 5 x x 8 9 x x x x x | 1 | 1331 |
| 11. | 1 2 x x 5 x x 8 x 10 x x x x | 5 | 308, 604, 807, 1268, 2014 |
| 12. | 1 2 x x 5 x x 8 x x 11 x x x | 2 | 217, 750 |
| 13. | 1 2 x x 5 x x x 9 10 x x x x | 1 | 1723 |
| 14. | 1 2 x x 5 x x x 9 x 11 x x x | 1 | 1945 |
| 15. | 1 2 x x 5 x x x x 10 11 x x x | 4 | 495, 631, 683, 1450 |
| 16. | 1 2 x x 5 x x x x 10 x 12 x x | 2 | 915, 1249 |
| 17. | 1 2 x x 5 x x x x 10 x x 13 x | 5 | 175, 691, 1207, 1305, 1336 |
| 18. | 1 2 x x 5 x x x x x 11 12 x x | 1 | 770 |
| 19. | 1 2 x x 5 x x x x x 11 x 13 x | 1 | 1869 |
| 20. | 1 2 x x x 6 x 8 x 10 x x x x | 1 | 85 |
| 21. | 1 2 x x x 6 x 8 x x x x 13 x | 1 | 376 |
| 22. | 1 2 x x x x 7 8 x x x 12 x x | 1 | 877 |
| 23. | 1 2 x x x x 7 x x x 11 12 x x | 1 | 11 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 24. | 1 2 x x x x x 8 9 10 x x x x | 5 | 953, 979, 1421, 1807, 1864 |
| 25. | 1 2 x x x x x 8 x 10 11 x x x | 2 | 1747, 1857 |
| 26. | 1 2 x x x x x 8 x 10 x 12 x x | 1 | 1876 |
| 27. | 1 2 x x x x x 8 x 10 x x 13 x | 1 | 1949 |
| 28. | 1 2 x x x x x x 9 10 x x x 14 | 1 | 2013 |
| 29. | 1 2 x x x x x x 9 x 11 12 x x | 2 | 346, 1339 |
| 30. | 1 2 x x x x x x x 10 11 12 x x | 3 | 667, 1253, 1634 |
| 31. | 1 2 x x x x x x x x 11 12 13 x | 1 | 530 |
| 32. | 1 x 3 x 5 x x 8 x 10 x x x x | 1 | 878 |
| 33. | 1 x 3 x 5 x x 8 x x x 12 x x | 1 | 347 |
| 34. | 1 x 3 x 5 x x x x x 11 12 x x | 1 | 215 |
| 35. | 1 x 3 x x x x x 9 x 11 12 x x | 1 | 189 |
| 36. | 1 x 3 x x x 7 8 x x 11 x x x | 1 | 486 |
| 37. | 1 x 3 x x x x 8 x 10 11 x x x | 1 | 446 |
| 38. | 1 x 3 x x x x x 9 x x x 13 14 | 1 | 496 |
| 39. | 1 x x 4 x x x 8 9 10 x x x x | 1 | 6 |
| 40. | 1 x x x 5 6 x x 9 10 x x x x | 2 | 1393, 1409 |
| 41. | 1 x x x 5 6 x x x 10 x 12 x x | 1 | 439 |
| 42. | 1 x x x 5 x 7 8 9 x x x x x | 1 | 801 |
| 43. | 1 x x x 5 x 7 8 x 10 x x x x | 1 | 845 |
| 44. | 1 x x x 5 x 7 x 9 x 11 x x x | 1 | 1236 |
| 45. | 1 x x x 5 x 7 x x 10 x x 13 x | 1 | 1569 |
| 46. | 1 x x x 5 x x 8 9 10 x x x x | 4 | 806, 852, 1225, 1294 |
| 47. | 1 x x x 5 x x 8 9 x 11 x x x | 2 | 782, 1922 |
| 48. | 1 x x x 5 x x 8 9 x x x x 14 | 1 | 638 |
| 49. | 1 x x x 5 x x 8 x 10 11 x x x | 6 | 1, 421, 639, 799, 872, 1904 |
| 50. | 1 x x x 5 x x 8 x 10 x 12 x x | 2 | 523, 738 |
| 51. | 1 x x x 5 x x 8 x x 11 12 x x | 2 | 633, 1444 |
| 52. | 1 x x x 5 x x 8 x x x 12 x 14 | 1 | 1345 |
| 53. | 1 x x x 5 x x x 9 10 11 x x x | 3 | 851, 1144, 1635 |
| 54. | 1 x x x 5 x x x 9 10 x x x 14 | 1 | 1947 |
| 55. | 1 x x x 5 x x x x 10 11 12 x x | 5 | 438, 574, 616, 865, 1075 |
| 56. | 1 x x x 5 x x x x x 11 12 13 x | 2 | 124, 191 |
| 57. | 1 x x x x 6 x 8 x 10 11 x x x | 1 | 1377 |
| 58. | 1 x x x x 6 x x 9 10 11 x x x | 1 | 1397 |
| 59. | 1 x x x x x 7 8 9 x x 12 x x | 1 | 794 |
| 60. | 1 x x x x x 7 x 9 10 11 x x x | 1 | 2015 |
| 61. | 1 x x x x x 7 x 9 10 x 12 x x | 1 | 842 |
| 62. | 1 x x x x x 7 x x 10 11 x 13 x | 1 | 188 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 63. | 1 x x x x x x 8 9 10 11 x x x | 3 | 273, 942, 1410 |
| 64. | 1 x x x x x x 8 9 10 x 12 x x | 1 | 1535 |
| 65. | 1 x x x x x x 8 x 10 11 12 x x | 7 | 119, 813, 881, 1005, 1525, 1586, 2040, |
| 66. | 1 x x x x x x 8 x x 11 12 13 x | 1 | 1373 |
| 67. | 1 x x x x x x x 9 10 11 12 x x | 3 | 902, 1135, 1492 |
| 68. | 1 x x x x x x x 9 x 11 12 13 x | 1 | 1846 |
| 69. | x 2 3 x 5 x x 8 x x 11 x x x | 1 | 2032 |
| 70. | x 2 3 x 5 x x x 9 x 11 x x x | 1 | 1192 |
| 71. | x 2 3 x x x x x x 10 11 12 x x | 1 | 185 |
| 72. | x 2 x x 5 x 7 x x x 11 12 x x | 1 | 766 |
| 73. | x 2 x x 5 x x 8 x 10 x 12 x x | 1 | 907 |
| 74. | x 2 x x 5 x x 8 x x 11 12 x x | 1 | 34 |
| 75. | x 2 x x 5 x x 8 x 10 x x x 14 | 1 | 1151 |
| 76. | x 2 x x 5 x x x 9 10 11 x x x | 1 | 966 |
| 77. | x 2 x x 5 x x x 9 x 11 12 x x | 1 | 721 |
| 78. | x 2x x 5 x x x x 10 11 12 x x | 3 | 628, 673, 1243 |
| 79. | x 2 x x x x 7 x 9 10 11 x x x | 1 | 1141 |
| 80. | x 2 x x x x 7 x x 10 11 12 x x | 1 | 2027 |
| 81. | x 2 x x x x x x 9 10 11 12 x x | 2 | 554, 826 |
| 82. | x x 3 x 5 6 7 x x 10 x x x x | 1 | 1163 |
| 83. | x x 3 x 5 x 7 x 9 10 x x x x | 1 | 945 |
| 84. | x x 3 x 5 x 7 x 9 x 11 x x x | 1 | 1078 |
| 85. | x x 3 x 5 x x 8 x 10 11 x x x | 1 | 229 |
| 86. | x x 3 x 5 x x 8 x 10 x x x 14 | 1 | 1325 |
| 87. | x x 3 x 5 x x 8 x x 11 12 x x | 1 | 692 |
| 88. | x x 3 x 5 x x x 9 10 11 x x x | 2 | 1719, 1925 |
| 89. | x x 3 x 5 x x x 9 x 11 12 x x | 2 | 525, 1995 |
| 90. | x x 3 x 5 x x x x 10 11 x 13 x | 1 | 1703 |
| 91. | x x 3 x x 6 7 x x x 11 12 x x | 1 | 1147 |
| 92. | x x 3 x x x x 8 9 10 x 12 x x | 1 | 1709 |
| 93. | x x 3 x x x x 8 9 x 11 12 x x | 1 | 723 |
| 94. | x x 3 x x x x 8 x 10 11 12 x x | 2 | 354, 1750 |
| 95. | x x 3 x x x x x x 10 11 12 x 14 | 1 | 1199 |
| 96. | x x x 4 5 x x x 9 10 11 x x x | 1 | 792 |
| 97. | x x x 4 5 x x x x 10 11 12 x x | 1 | 935 |
| 98. | x x x 4 x 6 7 x x x 11 12 x x | 1 | 272 |
| 99. | x x x 4 x 6 x 8 x x 11 12 x x | 1 | 577 |
| 100. | x x x x 5 6 x 8 9 x 11 x x x | 1 | 1570 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 101. | x x x x 5 x 7 8 9 10 x x x x | 2 | 338, 629 |
| 102. | x x x x 5 x 7 8 9 x 11 x x x | 1 | 1115 |
| 103. | x x x x 5 x 7 8 x 10 x 12 x x | 2 | 194, 1714 |
| 104. | x x x x 5 x 7 x 9 10 x 12 x x | 1 | 634 |
| 105. | x x x x 5 x 7 x x 10 11 12 x x | 1 | 146 |
| 106. | x x x x 5 x x 8 9 10 11 x x x | 5 | 84, 937, 941, 1123, 1886 |
| 107. | x x x x 5 x x 8 9 10 x 12 x x | 3 | 20, 1056, 2001 |
| 108. | x x x x 5 x x 8 9 10 x x 13 x | 2 | 200, 800 |
| 109. | x x x x 5 x x 8 9 10 x x x 14 | 1 | 1530 |
| 110. | x x x x 5 x x 8 9 x 11 12 x x | 3 | 258, 432, 1847 |
| 111. | x x x x 5 x x 8 9 x 11 x 13 x | 1 | 526 |
| 112. | x x x x 5 x x 8 x 10 11 12 x x | 8 | 109, 220, 385, 550, 1168, 1250, 1479, 2024 |
| 113. | x x x x 5 x x 8 x 10 11 12 x x | 1 | 251 |
| 114. | x x x x 5 x x 8 x 10 x 12 13 x | 1 | 1046 |
| 115. | x x x x 5 x x x 9 10 11 12 x x | 12 | 410, 546, 677, 894, 895, 970, 978, 1142, 1226, 1658, 1767, 1987 |
| 116. | x x x x x 6 7 8 9 10 x x x x | 1 | 1216 |
| 117. | x x x x x 6 7 x x 10 11 12 x x | 1 | 257 |
| 118. | x x x x x 6 x 8 9 10 11 x x x | 1 | 2 |
| 119. | x x x x x 6 x x 9 10 11 12 x x | 1 | 1982 |
| 120. | x x x x x x 7 8 9 10 x 12 x x | 1 | 1898 |
| 121. | x x x x x x 7 x 9 10 11 12 x x | 1 | 585 |
| 122. | x x x x x x x 8 9 10 11 12 x x | 7 | 3, 138, 276, 425, 1257, 1901, 1960 |
| 123. | x x x x x x x 8 9 x 11 12 x 14 | 1 | 456 |
| 124. | x x x x x x x 8 x 10 11 12 13 x | 2 | 820, 934 |
| 125. | x x x x x x x 8 x 10 11 12 x 14 | 1 | 2010 |
| | Total Number of Items | 221 | |

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List 11.

Sets of 4 Occurrences

Maximum Number of Sets of this Type: 1001
Number of Sets of this Type Occurring: 134

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 x 5 x x x x x x x x x | 3 | 53, 720, 997 |
| 2. | 1 2 3 x x x x x 9 x x x x x | 1 | 12 |
| 3. | 1 2 3 x x x x x x 10 x x x x | 1 | 704 |
| 4. | 1 2 3 x x x x x x x 11 x x x | 2 | 1202, 1288 |
| 5. | 1 2 x x 5 x 7 x x x x x x x | 1 | 365 |
| 6. | 1 2 x x 5 x x 8 x x x x x x | 4 | 545, 719, 798, 1582, |
| 7. | 1 2 x x 5 x x x 9 x x x x x | 4 | 640, 656, 680, 2006 |
| 8. | 1 2 x x 5 x x x x 10 x x x x | 5 | 43, 464, 689, 693, 897 |
| 9. | 1 2 x x 5 x x x x x 11 x x x | 5 | 21, 60, 90, 762, 1178 |
| 10. | 1 2 x x 5 x x x x x x 12 x x | 2 | 1028, 1030 |
| 11. | 1 2 x x 5 x x x x x x x 13 x | 2 | 33, 742 |
| 12. | 1 2 x x 5 x x x x x x x x 14 | 2 | 362, 1970 |
| 13. | 1 2 x x x 6 x x x 10 x x x x | 1 | 235 |
| 14. | 1 2 x x x x 7 x x 10 x x x x | 1 | 1003 |
| 15. | 1 2 x x x x x 8 9 x x x x x | 3 | 752, 763, 1254 |
| 16. | 1 2 x x x x x 8 x 10 x x x x | 1 | 36 |
| 17. | 1 2 x x x x x 8 x x 11 x x x | 1 | 649 |
| 18. | 1 2 x x x x x x 9 10 x x x x | 3 | 412, 1566, 1809 |
| 19. | 1 2 x x x x x x x 9 x x 12 x x | 1 | 1104 |
| 20. | 1 2 x x x x x x x 9 x x x 13 x | 1 | 791 |
| 21. | 1 2 x x x x x x x 9 x x x x 14 | 1 | 1290 |
| 22. | 1 2 x x x x x x x x 10 11 x x x | 1 | 654 |
| 23. | 1 2 x x x x x x x x 10 x 12 x x | 3 | 408, 423, 1155 |
| 24. | 1 2 x x x x x x x x x 11 12 x x | 3 | 488, 1408, 1991 |
| 25. | 1 2 x x x x x x x x x 11 x 13 x | 1 | 46 |
| 26. | 1 x 3 x 5 x x 8 x x x x x x x | 1 | 1235 |
| 27. | 1 x 3 x 5 x x x x x 10 x x x x | 3 | 860, 1490, 1985 |
| 28. | 1 x 3 x x x x 8 9 x x x x x | 1 | 773 |
| 29. | 1 x 3 x x x x x x x 10 11 x x x | 1 | 1231 |
| 30. | 1 x x 4 5 6 x x x x x x x x | 1 | 1153 |
| 31. | 1 x x 4 5 x x x x 10 x x x x | 1 | 104 |
| 32. | 1 x x x 5 x 7 8 x x x x x x | 1 | 1590 |
| 33. | 1 x x x 5 x x 8 9 x x x x x | 1 | 1867 |
| 34. | 1 x x x 5 x 8 x 9 x x x x x | 10 | 39, 193, 377, 737, 847, 1388, 1418, 1573, 1726, 1816 |
| 35. | 1 x x x 5 x x 8 x x 11 x x x | 3 | 873, 1878, 1956 |
| 36. | 1 x x x 5 x x 8 x x x 12 x x | 2 | 155, 1180 |
| 37. | 1 x x x 5 x x 8 x x x x x 14 | 1 | 1664 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 38. | 1 x x x 5 x x x 9 10 x x x x | 3 | 103, 591, 1577 |
| 39. | 1 x x x 5 x x x 9 x 11 x x x | 2 | 306, 840 |
| 40. | 1 x x x 5 x x x 9 x x 12 x x | 1 | 380 |
| 41. | 1 x x x 5 x x x 9 x x x 13 x | 1 | 129 |
| 42. | 1 x x x 5 x x x 9 x x x x 14 | 1 | 1574 |
| 43. | 1 x x x 5 x x x x 10 11 x x x | 5 | 810, 861, 874, 1711, 1802 |
| 44. | 1 x x x 5 x x x x 10 x 12 x x | 3 | 31, 1431, 1770 |
| 45. | 1 x x x 5 x x x x 10 x x x 14 | 1 | 223 |
| 46. | 1 x x x 5 x x x x x 11 12 x x | 6 | 54, 481, 701, 825, 1136, 1775 |
| 47. | 1 x x x x x 7 8 x 10 x x x x | 1 | 1465 |
| 48. | 1 x x x x x 7 x x 10 11 x x x | 1 | 1988 |
| 49. | 1 x x x x x 7 x x x 11 12 x x | 2 | 989, 1100 |
| 50. | 1 x x x x x x 8 9 10 x x x x | 3 | 703, 862, 1948 |
| 51. | 1 x x x x x x 8 x 10 11 x x x | 3 | 140, 529, 1725 |
| 52. | 1 x x x x x x 8 x 10 x 12 x x | 2 | 632, 1813 |
| 53. | 1 x x x x x x 8 x 10 x x x 14 | 1 | 876 |
| 54. | 1 x x x x x x 8 x x 11 12 x x | 1 | 433 |
| 55. | 1 x x x x x x x 9 10 11 x x x | 2 | 236, 1934 |
| 56. | 1 x x x x x x x 9 10 x 12 x x | 2 | 818, 1219 |
| 57. | 1 x x x x x x x 9 x 11 12 x x | 2 | 389, 1293 |
| 58. | 1 x x x x x x x x 10 11 12 x x | 5 | 249, 283, 859, 901, 1473 |
| 59. | 1 x x x x x x x x 10 11 x 13 x | 1 | 202 |
| 60. | 1 x x x x x x x x 10 x 12 13 x | 2 | 608, 1504 |
| 61. | x 2 3 x 5 x x x x x x x x 14 | 1 | 97 |
| 62. | x 2 3 x x x x x 9 x 11 x x x | 1 | 534 |
| 63. | x 2 3 x x x x x x 10 11 x x x | 1 | 642 |
| 64. | x 2 x 4 5 x x x 9 x x x x x | 1 | 592 |
| 65. | x 2 x x 5 x x 8 9 x x x x x | 1 | 1691 |
| 66. | x 2 x x 5 x x 8 x 10 x x x x | 1 | 1364 |
| 67. | x 2 x x 5 x x 8 x x 11 x x x | 1 | 1585 |
| 68. | x 2 x x 5 x x x x 9 10 x x x x | 1 | 493 |
| 69. | x 2 x x 5 x x x x x 10 11 x x x | 1 | 1724 |
| 70. | x 2 x x 5 x x x x x 10 x x 13 x | 1 | 1089 |
| 71. | x 2 x x 5 x x x x x x 11 12 x x | 2 | 575, 1981 |
| 72. | x 2 x x x x x 8 9 10 x x x x | 2 | 700, 1211 |
| 73. | x 2 x x x x x x x 9 10 x 12 x x | 1 | 1817 |
| 74. | x 2 x x x x x x x x 10 11 12 x x | 4 | 443, 1014, 1107, 1594 |
| 75. | x x 3 4 5 x x 8 x x x x x x | 1 | 923 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 76. | x x 3 4 5 x x x x 10 x x x x | 1 | 341 |
| 77. | x x 3 x 5 x 7 x 9 x x x x x | 1 | 355 |
| 78. | x x 3 x 5 x x 8 9 x x x x x | 1 | 1469 |
| 79. | x x 3 x 5 x x 8 x x 11 x x x | 1 | 1716 |
| 80. | x x 3 x 5 x x x 9 10 x x x x | 4 | 331, 561, 1108, 1462 |
| 81. | x x 3 x 5 x x x x 10 11 x x x | 3 | 447, 572, 1706 |
| 82. | x x 3 x 5 x x x x 10 x x x 14 | 1 | 497 |
| 83. | x x 3 x 5 x x x x x 11 12 x x | 2 | 1629, 2041 |
| 84. | x x 3 x 5 x x x x x x x 13 14 | 1 | 648 |
| 85. | x x 3 x x x 7 x x x 11 12 x x | 1 | 728 |
| 86. | x x 3 x x x x 8 x 10 11 x x x | 1 | 1006 |
| 87. | x x 3 x x x x 8 x x 11 12 x x | 2 | 583, 1759 |
| 88. | x x 3 x x x x x 9 10 11 x x x | 2 | 266, 394 |
| 89. | x x 3 x x x x x 9 10 x 12 x x | 1 | 856 |
| 90. | x x 3 x x x x x x 10 11 12 x x | 4 | 267, 858, 1007, 2003 |
| 91. | x x x 4 5 x x x x 10 x x 13 x | 1 | 606 |
| 92. | x x x 4 x 6 x x 9 10 x x x x | 1 | 5 |
| 93. | x x x 4 x x x x x 10 11 12 x x | 1 | 2044 |
| 94. | x x x x 5 6 x x 9 10 x x x x | 1 | 92 |
| 95. | x x x x 5 6 x x x x x 11 12 x x | 2 | 358, 1052 |
| 96. | x x x x 5 x 7 8 x 10 x x x x | 2 | 646, 1066 |
| 97. | x x x x 5 x 7 8 x x x 12 x x | 1 | 1094 |
| 98. | x x x x 5 x 7 x x 10 11 x x x | 1 | 1561 |
| 99. | x x x x 5 x 7 x x 10 x 12 x x | 1 | 161 |
| 100. | x x x x 5 x 7 x x 11 12 x x | 2 | 98, 1800 |
| 101. | x x x x 5 x x 8 9 10 x x x x | 6 | 174, 299, 903, 1165, 1565, 1675 |
| 102. | x x x x 5 x x 8 9 x 11 x x x | 1 | 1096 |
| 103. | x x x x 5 x x 8 9 x x 12 x x | 1 | 802 |
| 104. | x x x x 5 x x 8 9 x x x 13 x | 1 | 178 |
| 105. | x x x x 5 x x 8 x 10 11 x x x | 4 | 144, 570, 1663, 2034 |
| 106. | x x x x 5 x x 8 x 10 x 12 x x | 2 | 110, 1004 |
| 107. | x x x x 5 x x 8 x 10 x x 13 x | 1 | 994 |
| 108. | x x x x 5 x x 8 x x 11 12 x x | 5 | 150, 676, 731, 1426, 1674 |
| 109. | x x x x 5 x x 8 x x 11 x 13 x | 1 | 51 |
| 110. | x x x x 5 x x 8 x x x 12 13 x | 1 | 1344 |
| 111. | x x x x 5 x x 8 x x x x 13 14 | 1 | 745 |
| 112. | x x x x 5 x x x 9 10 11 x x x | 6 | 243, 879, 1060, 1497, 1531, 1782 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 113. | x x x x 5 x x x 9 10 x 12 x x | 4 | 368, 537, 1021, 1562 |
| 114. | x x x x 5 x x x 9 10 x x 13 x | 1 | 1016 |
| 115. | x x x x 5 x x x 9 x 11 12 x x | 2 | 413, 718 |
| 116. | x x x x 5 x x x 9 x 11 x 13 x | 1 | 1827 |
| 117. | x x x x 5 x x x x 10 11 12 x x | 14 | 246, 459, 560, 657, 822, 948, 956, 985, 1205, 1296, 1389, 1476, 1715, 1758 |
| 118. | x x x x 5 x x x x x 11 12 13 x | 1 | 339 |
| 119. | x x x x x 6 x 8 9 10 x x x x | 1 | 241 |
| 120. | x x x x x 6 x 8 9 x 11 x x x | 1 | 1536 |
| 121. | x x x x x 6 x 8 x x 11 12 x x | 1 | 1057 |
| 122. | x x x x x 6 x x 9 10 11 x x x | 1 | 1547 |
| 123. | x x x x x x 7 8 9 10 x x x x | 2 | 183, 287 |
| 124. | x x x x x x 7 8 x 10 11 x x x | 1 | 1489 |
| 125. | x x x x x x 7 8 x 10 x x 13 x | 2 | 68, 1882 |
| 126. | x x x x x x x 8 9 10 11 x x x | 4 | 967, 1015, 1018, 1954 |
| 127. | x x x x x x x 8 9 10 x 12 x x | 6 | 182, 816, 1161, 1381, 1661, 1885 |
| 128. | x x x x x x x 8 9 x 11 12 x x | 2 | 226, 1177 |
| 129. | x x x x x x x 8 x 10 11 12 x x | 6 | 177, 472, 579, 675, 1087, 1779 |
| 130. | x x x x x x x 8 x 10 x 12 13 x | 1 | 1554 |
| 131. | x x x x x x x x 9 10 11 12 x x | 20 | 190, 192, 379, 613, 637, 784, 986, 1099, 1121, 1146, 1200, 1282, 1327, 1655, 1656, 1671, 1787, 1837, 1887, 1918 |
| 132. | x x x x x x x x 9 10 11 x 13 x | 1 | 1463 |
| 133. | x x x x x x x x 9 x 11 12 13 x | 1 | 277 |
| 134. | x x x x x x x x x 10 11 12 13 x | 4 | 245, 361, 1055, 1111 |
| | Total Number of Items | 297 | |

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List 12.

Sets of 3 Occurrences

Maximum Number of Sets of this Type: 364

Number of Sets of this Type Occurring: 100

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 3 x x x x x x x x x x | 1 | 815 |
| 2. | 1 2 x x 5 x x x x x x x x | 22 | 22, 47, 321, 335, 395, 403, 647, 706, 900, 918, 975, 998, 1044, 1506, 1551, 1568, 1732, 1774, 1879, 1911, 1915, 2000 |
| 3. | 1 2 x x x x x 8 x x x x x | 4 | 855, 1320, 1494, 1600 |
| 4. | 1 2 x x x x x x 9 x x x x | 7 | 74, 108, 645, 755, 761, 1337, 1539 |
| 5. | 1 2 x x x x x x x 10 x x x | 9 | 13, 171, 441, 615, 743, 808, 1035, 1606, 1874 |
| 6. | 1 2 x x x x x x x x 11 x x | 4 | 18, 511, 834, 1919 |
| 7. | 1 2 x x x x x x x x x 12 x | 5 | 563, 620, 995, 1417, 1597 |
| 8. | 1 2 x x x x x x x x x x 14 | 1 | 500 |
| 9. | 1 x 3 x 5 x x x x x x x x | 2 | 134, 163 |
| 10. | 1 x 3 x x x x 8 x x x x x | 1 | 392 |
| 11. | 1 x 3 x x x x x x 10 x x x | 1 | 1368 |
| 12. | 1 x 3 x x x x x x x x 12 x | 1 | 153 |
| 13. | 1 x x 4 5 x x x x x x x x | 1 | 619 |
| 14. | 1 x x x 5 6 x x x x x x x | 1 | 1370 |
| 15. | 1 x x x 5 x 7 x x x x x x | 1 | 303 |
| 16. | 1 x x x 5 x x 8 x x x x x | 6 | 45, 62, 455, 541, 576, 1895 |
| 17. | 1 x x x 5 x x x 9 x x x x | 8 | 149, 384, 863, 933, 1032, 1475, 1729, 2008 |
| 18. | 1 x x x 5 x x x x 10 x x x | 7 | 17, 388, 795, 866, 920, 1619, 1836 |
| 19. | 1 x x x 5 x x x x x 11 x x | 7 | 37, 921, 925, 961, 1019, 1048, 1628 |
| 20. | 1 x x x 5 x x x x x x 12 x | 4 | 401, 962, 1033, 1917, |
| 21. | 1 x x x 5 x x x x x x x 13 | 1 | 735 |
| 22. | 1 x x x 5 x x x x x x x x | 1 | 1909 |
| 23. | 1 x x x x 6 x x 9 x x x x | 1 | 148 |
| 24. | 1 x x x x x 7 8 x x x x x | 2 | 237, 835 |
| 25. | 1 x x x x x x 8 9 x x x x | 2 | 1217, 1522 |
| 26. | 1 x x x x x x 8 x 10 x x x | 7 | 52, 336, 434, 779, 959, 1158, 1959 |
| 27. | 1 x x x x x x 8 x x 11 x x | 2 | 1247, 1931 |
| 28. | 1 x x x x x x 8 x x x x x | 1 | 417 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 29. | 1 x x x x x x x 9 10 x x x x | 2 | 310, 1038 |
| 30. | 1 x x x x x x x 9 x 11 x x x | 1 | 1510 |
| 31. | 1 x x x x x x x x 10 11 x x x | 10 | 313, 406, 614, 699, 836, 839, 875, 1371, 1614,1757 |
| 32. | 1 x x x x x x x x 10 x 12 x x | 4 | 664, 833, 1187, 1464 |
| 33. | 1 x x x x x x x x x 11 12 x x | 6 | 184, 783, 932, 1009, 1150 1866 |
| 34. | x 2 3 x 5 x x x x x x x x x | 1 | 23 |
| 35. | x 2 3 x x x 7 x x x x x x x | 1 | 390 |
| 36. | x 2 3 x x x x x x 10 x x x x | 1 | 1838 |
| 37. | x 2 3 x x x x x x x 11 x x x | 1 | 1738 |
| 38. | x 2 x x 5 x 7 x x x x x x x | 1 | 1474 |
| 39. | x 2 x x 5 x x x 9 x x x x x | 2 | 1341, 1777 |
| 40. | x 2 x x 5 x x x x 10 x x x x | 1 | 27 |
| 41. | x 2 x x 5 x x x x x x 12 x x | 1 | 622 |
| 42. | x 2 x x x 6 x x x x 11 x x x | 1 | 9 |
| 43. | x 2 x x x x x 8 x x 11 x x x | 1 | 1794 |
| 44. | x 2 x x x x x x 9 10 x x x x | 3 | 208, 1233, 1482 |
| 45. | x 2 x x x x x x x 10 11 x x x | 1 | 790 |
| 46. | x 2 x x x x x x x 10 x 12 x x | 1 | 965 |
| 47. | x 2 x x x x x x x 10 x x 13 x | 1 | 760 |
| 48. | x x 3 x 5 x 7 x x x x x x x | 1 | 1338 |
| 49. | x x 3 x 5 x x 8 x x x x x x | 2 | 428, 1260 |
| 50. | x x 3 x 5 x x x 9 x x x x x | 2 | 407, 449 |
| 51. | x x 3 x 5 x x x x 10 x x x x | 6 | 120, 539, 627, 1357, 1576, 1717 |
| 52. | x x 3 x 5 x x x x x 11 x x x | 2 | 16, 602 |
| 53. | x x 3 x 5 x x x x x x 12 x x | 1 | 323 |
| 54. | x x 3 x x x 7 x 9 x x x x x | 1 | 2009 |
| 55. | x x 3 x x x x 8 9 x x x x x | 1 | 82 |
| 56. | x x 3 x x x x 8 x 10 x x x x | 2 | 1602, 1929 |
| 57. | x x 3 x x x x x 9 10 x x x x | 5 | 307, 315, 564, 1064, 1595 |
| 58. | x x 3 x x x x x 9 x 11 x x x | 1 | 1352 |
| 59. | x x 3 x x x x x 9 x x 12 x x | 2 | 708, 1756 |
| 60. | x x 3 x x x x x x 10 11 x x x | 6 | 387, 454, 531, 594, 609, 1477 |
| 61. | x x 3 x x x x x x x 11 12 x x | 4 | 623, 658, 1054, 1502 |
| 62. | x x x 4 5 x x x x 10 x x x x | 1 | 681 |
| 63. | x x x 4 x x x 8 9 x x x x x | 1 | 180 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 64. | x x x 4 x x x x x x 11 12 x x | 1 | 430 |
| 65. | x x x x 5 6 x 8 x x x x x x | 1 | 1470 |
| 66. | x x x x 5 6 x x x 10 x x x x | 1 | 186 |
| 67. | x x x x 5 6 x x x x x 12 x x | 1 | 1124 |
| 68. | x x x x 5 x 7 x 9 x x x x x | 1 | 1118 |
| 69. | x x x x 5 x 7 x x 10 x x x x | 1 | 324 |
| 70. | x x x x 5 x 7 x x x x 12 x x | 2 | 334, 1900 |
| 71. | x x x x 5 x x 8 9 x x x x x | 6 | 857, 870, 1193, 1744, 1803, 1865 |
| 72. | x x x x 5 x x 8 x 10 x x x x | 12 | 19, 63, 139, 238, 466, 485, 538, 584, 848, 1303, 1361, 1853 |
| 73. | x x x x 5 x x 8 x x 11 x x x | 7 | 116, 234, 734, 1051, 1194, 1446, 1829 |
| 74. | x x x x 5 x x 8 x x x 12 x x | 5 | 542, 716, 1422, 1430, 1689 |
| 75. | x x x x 5 x x 8 x x x x 13 x | 1 | 1781 |
| 76. | x x x x 5 x x 8 x x x x x 14 | 4 | 322, 1333, 1589, 1710 |
| 77. | x x x x 5 x x x 9 10 x x x x | 17 | 14, 239, 255, 440, 480, 504, 891, 958, 1088, 1209, 1271, 1604, 1631, 1644, 1700, 1734, 1766 |
| 78. | x x x x 5 x x x 9 x 11 x x x | 4 | 936, 1036, 1295, 2038 |
| 79. | x x x x 5 x x x 9 x x 12 x x | 3 | 540, 714, 1772 |
| 80. | x x x x 5 x x x x 10 11 x x x | 18 | 253, 652, 670, 819, 864, 976, 1012, 1145, 1173, 1277, 1552, 1608, 1612, 1685, 1720, 1763, 1831, 1875 |
| 81. | x x x x 5 x x x x 10 x 12 x x | 6 | 688, 724, 1149, 1160, 1483, 1632 |
| 82. | x x x x 5 x x x x 10 x x x 14 | 1 | 999 |
| 83. | x x x x 5 x x x x x 11 12 x x | 12 | 733, 739, 812, 882, 950, 1062, 1228, 1234, 1369, 1620, 1903, 1914 |
| 84. | x x x x 5 x x x x x 11 x 13 x | 1 | 99 |
| 85. | x x x x x 6 x x 9 10 x x x x | 1 | 587 |
| 86. | x x x x x 6 x x x 10 11 x x x | 1 | 280 |
| 87. | x x x x x x 7 x x 10 11 x x x | 1 | 1058 |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 88. | x x x x x x 7 x x x 11 12 x x | 2 | 1068, 1433 |
| 89. | x x x x x x x 8 9 10 x x x x | 17 | 7, 67, 282, 360, 597,705, 764, 772, 777, 1291, 1306, 1485, 1654,1828, 1872, 1940, 1973, |
| 90. | x x x x x x x 8 9 x x 12 x x | 1 | 1881 |
| 91. | x x x x x x x 8 x 10 11 x x x | 13 | 240, 366, 850, 943, 1423, 1445, 1447, 1512,1630, 1646, 1778, 1928, 1965 |
| 92. | x x x x x x x 8 x 10 x 12 x x | 8 | 179, 386, 662, 663, 817, 1098, 1684, 1814 |
| 93. | x x x x x x x 8 x 10 x x 13 x | 1 | 8 |
| 94. | x x x x x x x 8 x x 11 12 x x | 4 | 135, 242, 917, 1148 |
| 95. | x x x x x x x x 9 10 11 x x x | 8 | 281, 284, 372, 593, 651, 981, 1499, 1728 |
| 96. | x x x x x x x x 9 10 x 12 x x | 11 | 198, 206, 286, 291, 402, 947, 1113, 1186, 1391, 1394, 1818 |
| 97. | x x x x x x x x 9 10 x x 13 x | 1 | 278 |
| 98. | x x x x x x x x 9 x 11 12 x x | 9 | 450, 521, 751, 1239, 1648, 1662, 1784, 1843, 1845 |
| 99. | x x x x x x x x x 10 11 12 x x | 35 | 40, 57, 95, 228, 247, 288, 371, 501, 519, 568, 580, 653, 659, 668, 682, 927, 972, 977, 1069, 1102, 1117, 1126, 1404, 1439, 1484, 1508, 1513, 1560, 1622, 1637, 1643, 1645, 1659, 1788, 2035 |
| 100. | x x x x x x x x x 10 11 x 13 x | 1 | 987 |
| | Total Number of Items | 406 | |

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List 13.

Sets of 2 Occurrences

Maximum Number of Sets of this Type: 91
Number of Sets of this Type Occurring: 49

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 2 x x x x x x x x x x x x | 5 | 484, 569, 661, 665, 1796 |
| 2. | 1 x 3 x x x x x x x x x x x | 3 | 65, 992, 1615 |
| 3. | 1 x x x 5 x x x x x x x x x | 25 | 145, 181, 231, 301, 329, 340, 474, 771, 774, 787, 889, 960, 963, 1039, 1152, 1237, 1262, 1263, 1274, 1319, 1486, 1735, 1877, 1907, 2037 |
| 4. | 1 x x x x x 7 x x x x x x x | 2 | 1789, 1860 |
| 5. | 1 x x x x x x 8 x x x x x x | 6 | 114, 469, 785, 1011, 1395, 1935 |
| 6. | 1 x x x x x x x 9 x x x x x | 7 | 209, 279, 687, 971, 1307, 1406, 1937 |
| 7. | 1 x x x x x x x x 10 x x x x | 21 | 219, 274, 356, 416, 452, 453, 491, 507, 831, 922, 973, 1285, 1315, 1480, 1481, 1501, 1505, 1509, 1616, 2017, 2029 |
| 8. | 1 x x x x x x x x x 11 x x x | 9 | 487, 610, 789, 796, 805, 837, 1326, 1495, 1844, |
| 9. | 1 x x x x x x x x x x 12 x x | 4 | 993, 996, 1598, 1742 |
| 10. | 1 x x x x x x x x x x x 13 x | 1 | 2030 |
| 11. | x 2 3 x x x x x x x x x x x | 1 | 115 |
| 12. | x 2 x x 5 x x x x x x x x x | 3 | 196, 1358, 1455 |
| 13. | x 2 x x x x 7 x x x x x x x | 1 | 588 |
| 14. | x 2 x x x x x 8 x x x x x x | 2 | 1669, 1752 |
| 15. | x 2 x x x x x x 9 x x x x x | 1 | 1366 |
| 16. | x 2 x x x x x x x 10 x x x x | 6 | 349, 1520, 1523, 1801, 1897, 1912 |
| 17. | x 2 x x x x x x x x 11 x x x | 4 | 838, 1188, 1429, 1737 |
| 18. | x 2 x x x x x x x x x 12 x x | 1 | 1939 |
| 19. | x x 3 x 5 x x x x x x x x x | 15 | 66, 87, 173, 375, 448, 476, 710, 871, 887, 924, 1265, 1276, 1323, 1415, 1467 |
| 20. | x x 3 x x x 7 x x x x x x x | 1 | 1349 |
| 21. | x x 3 x x x x 8 x x x x x x | 2 | 264, 990 |
| 22. | x x 3 x x x x x 9 x x x x x | 2 | 154, 1109 |
| 23. | x x 3 x x x x x x 10 x x x x | 8 | 78, 342, 370, 532, 660, |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| | | | 1157, 1251, 1681 |
| 24. | x x 3 x x x x x x x 11 x x x | 3 | 102, 1010, 1978 |
| 25. | x x 3 x x x x x x x x 12 x x | 2 | 573, 1830 |
| 26. | x x x x 5 x 7 x x x x x x x | 6 | 55, 100, 133, 929, 1065, 1466 |
| 27. | x x x x 5 x x 8 x x x x x x | 28 | 111, 112, 343, 460, 512, 567, 655, 709, 740, 954, 1050, 1077, 1106, 1184, 1246, 1259, 1316, 1347, 1365, 1367, 1468, 1496, 1532, 1557, 1695, 1741, 1825, 1916 |
| 28. | x x x x 5 x x x 9 x x x x x | 14 | 25, 80, 107, 164, 503, 749, 765, 926, 1049, 1170, 1736, 1776, 1791, 1899 |
| 29. | x x x x 5 x x x x 10 x x x x | 38 | 30, 32, 83, 93, 151, 244, 254, 312, 353, 398, 457, 490, 595, 630, 727, 736, 778, 804, 928, 982, 1013, 1074, 1255, 1266, 1267, 1329, 1448, 1596, 1649, 1668, 1687, 1697, 1731 1804, 1821, 1822, 1834, 2036 |
| 30. | x x x x 5 x x x x x 11 x x x | 28 | 35, 218, 330, 533, 581, 636, 722, 726, 747, 854, 913, 919, 944, 1001, 1086, 1101, 1197, 1232, 1618, 1638, 1652, 1672, 1677, 1690, 1696, 1852, 1983, 1961 |
| 31. | x x x x 5 x x x x x x 12 x x | 11 | 4, 165, 571, 624, 625, 715, 744, 824, 1132, 1222, 1740 |
| 32. | x x x x 5 x x x x x x x 13 x | 1 | 91 |
| 33. | x x x x 5 x x x x x x x x 14 | 1 | 499 |
| 34. | x x x x x x 7 x x 10 x x x x | 3 | 378, 578, 1090 |
| 35. | x x x x x x 7 x x x 11 x x x | 1 | 1487 |
| 36. | x x x x x x x 8 9 x x x x x | 12 | 142, 159, 599, 717, 1137, |

| No. | Pattern | Occur-rences | Item Serial Numbers |
|---|---|---|---|
| | | | 1154, 1273, 1459, 1544, 1942, 1952, 1969, |
| 37. | x x x x x x x 8 x 10 x x x x | 23 | 59, 160, 224, 259, 269, 270, 292, 427, 589, 685, 951, 1026, 1093, 1119, 1244, 1362, 1657, 1780, 1783, 1805, 1823, 1889, 1941 |
| 38. | x x x x x x x 8 x x 11 x x x | 5 | 590, 1083, 1311, 1396, 1931 |
| 39. | x x x x x x x 8 x x x 12 x x | 6 | 797, 912, 968, 1023, 1363, 1452 |
| 40. | x x x x x x x 8 x x x x 13 x | 1 | 1478 |
| 41. | x x x x x x x 8 x x x x x 14 | 1 | 1533 |
| 42. | x x x x x x x x x 9 10 x x x x | 32 | 156, 261, 268, 293, 369, 522, 582, 678, 707, 746, 786, 832, 1091, 1097, 1114, 1127, 1133, 1156, 1279, 1378, 1428, 1434, 1498, 1526, 1617, 1650, 1679, 1797, 1806, 1835, 1902, 2025 |
| 43. | x x x x x x x x x 9 x 11 x x x | 7 | 260, 265, 949, 991, 1407, 1647, 1977 |
| 44. | x x x x x x x x x 9 x x 12 x x | 9 | 713, 890, 899, 1112, 1130, 1208, 1289, 1458, 1890 |
| 45. | x x x x x x x x x 9 x x x x 14 | 1 | 1275 |
| 46. | x x x x x x x x x x 10 11 x x x | 44 | 166, 204, 256, 348, 409, 508, 518, 527, 528, 535, 643, 671, 672, 781, 853, 898, 914, 938, 964, 974, 984, 1079, 1110, 1248, 1309, 1310, 1382, 1438, 1441, 1443, 1500, 1503, 1611, 1641, 1642, 1660, 1666, 1712, 1761, 1810, 1906, 1908, 1910, 1938, |
| 47. | x x x x x x x x x x 10 x 12 x x | 25 | 248, 262, 405, 426, 517, 551, 626, 776, 969, 980, |

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| | | | 988, 1252, 1312, 1416, 1449, 1461, 1515, 1575, 1579, 1640, 1683, 1698, 1808, 1927, 1972 |
| 48. | x x x x x x x x x 10 x x 13 x | 1 | 304 |
| 49. | x x x x x x x x x x 11 12 x x | 7 | 41, 252, 285, 411, 621, 1304, 1636 |
| | Total Number of Items | 440 | |

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List 14.

Sets of 1 Occurrence

Maximum Number of Sets of this Type: 14
Number of Sets of this Type Occurring: 9

| No. | Pattern | Occurrences | Item Serial Numbers |
|---|---|---|---|
| 1. | 1 x x x x x x x x x x x x | 2 | 61, 1527 |
| 2. | x x x 4 x x x x x x x x x | 2 | 143, 1321 |
| 3. | x x x x 5 x x x x x x x x | 7 | 319, 404, 780, 1143, 1932, 2039, 2042 |
| 4. | x x x x x 6 x x x x x x x | 1 | 414 |
| 5. | x x x x x x x 8 x x x x x | 3 | 1204, 1537, 1926 |
| 6. | x x x x x x x x 9 x x x x | 2 | 1521, 1893 |
| 7. | x x x x x x x x x 10 x x x | 14 | 15, 24, 250, 373, 419, 506, 549, 666, 684, 1405, 1811, 1855, 1989, 2043 |
| 8. | x x x x x x x x x x 11 x x | 2 | 482, 883 |
| 9. | x x x x x x x x x x x 12 x | 3 | 203, 289, 1986 |
| | Total Number of Items | 36 | |

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# T A B L E  T H R E E

The Co-occurrences of Language Groups

1. Number of Co-occurrences of Language Groups

| Language Group | With | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Indic | - | 577 | 304 | 59 | 714 | 78 | 230 | 578 | 523 | 698 | 591 | 518 | 198 | 119 |
| 2. | Iranian | 577 | - | 264 | 52 | 501 | 69 | 189 | 415 | 403 | 497 | 421 | 379 | 167 | 97 |
| 3. | Armenian | 304 | 264 | - | 41 | 365 | 54 | 138 | 305 | 280 | 348 | 297 | 247 | 112 | 80 |
| 4 | *Phryg/Dac | 59 | 52 | 41 | - | 68 | 26 | 28 | 49 | 55 | 64 | 56 | 50 | 23 | 11 |
| 5. | Hellenic | 714 | 501 | 365 | 68 | - | 90 | 266 | 675 | 601 | 809 | 689 | 591 | 209 | 130 |
| 6. | Illyrian | 78 | 69 | 54 | 26 | 90 | - | 36 | 77 | 85 | 92 | 78 | 75 | 35 | 26 |
| 7. | Albanian | 230 | 189 | 138 | 28 | 266 | 36 | - | 230 | 208 | 259 | 223 | 216 | 91 | 49 |
| 8. | Italic | 578 | 415 | 305 | 49 | 675 | 77 | 230 | - | 546 | 730 | 564 | 525 | 185 | 120 |
| 9. | Celtic | 523 | 403 | 280 | 55 | 601 | 85 | 208 | 546 | - | 703 | 554 | 509 | 171 | 103 |
| 10. | Germanic | 698 | 497 | 348 | 64 | 809 | 92 | 259 | 730 | 703 | - | 828 | 722 | 214 | 120 |
| 11. | Baltic | 591 | 421 | 297 | 56 | 689 | 78 | 223 | 564 | 554 | 828 | - | 715 | 181 | 92 |
| 12. | Slavonic | 518 | 379 | 247 | 50 | 591 | 75 | 216 | 525 | 509 | 722 | 715 | - | 165 | 99 |
| 13. | Tocharian | 198 | 167 | 112 | 23 | 209 | 35 | 91 | 185 | 171 | 214 | 181 | 165 | - | 62 |
| 14. | Hittite | 119 | 97 | 80 | 11 | 130 | 26 | 49 | 120 | 103 | 120 | 92 | 99 | 62 | - |

2. Number of Co-occurrences of Language Groups (expressed in %)

| Language Group | With | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Indic | - | 57 | 30 | 6 | 71 | 8 | 23 | 57 | 52 | 69 | 59 | 51 | 20 | 12 |
| 2. | Iranian | 85 | - | 39 | 8 | 73 | 10 | 28 | 61 | 59 | 73 | 62 | 56 | 24 | 14 |
| 3. | Armenian | 64 | 56 | - | 9 | 77 | 11 | 29 | 65 | 59 | 74 | 63 | 52 | 24 | 17 |
| 4. | *Phryg/Dac | 73 | 64 | 51 | - | 84 | 32 | 35 | 60 | 68 | 79 | 69 | 62 | 28 | 14 |
| 5. | Hellenic | 58 | 41 | 30 | 6 | - | 7 | 22 | 55 | 49 | 66 | 56 | 48 | 17 | 11 |
| 6. | Illyrian | 67 | 59 | 47 | 22 | 78 | - | 31 | 66 | 73 | 79 | 67 | 65 | 30 | 22 |
| 7. | Albanian | 71 | 58 | 42 | 9 | 82 | 11 | - | 71 | 64 | 80 | 69 | 66 | 28 | 15 |
| 8. | Italic | 60 | 43 | 32 | 5 | 70 | 8 | 24 | - | 57 | 76 | 59 | 55 | 19 | 13 |
| 9. | Celtic | 57 | 44 | 30 | 6 | 65 | 9 | 23 | 59 | - | 76 | 60 | 55 | 19 | 11 |
| 10. | Germanic | 51 | 36 | 25 | 5 | 59 | 7 | 19 | 53 | 51 | - | 60 | 52 | 16 | 9 |
| 11. | Baltic | 54 | 38 | 27 | 5 | 63 | 7 | 20 | 51 | 50 | 75 | - | 65 | 16 | 8 |
| 12. | Slavonic | 55 | 40 | 26 | 5 | 63 | 8 | 23 | 56 | 54 | 77 | 76 | - | 18 | 11 |
| 13. | Tocharian | 76 | 64 | 43 | 9 | 80 | 13 | 35 | 71 | 66 | 82 | 70 | 63 | - | 24 |
| 14. | Hittite | 77 | 63 | 52 | 7 | 84 | 17 | 32 | 77 | 66 | 77 | 59 | 64 | 40 | - |

Note: *Phryg/Dac = Phrygian and Dacian

3. Number of Co-occurrences of Language Groups (expressed in terms of the correlation to '1' - .x : 1)

| Language Group With | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Indic | - | | | | | | | | | | | | | |
| 2. Iranian | .709 | | | | | | | | | | | | | |
| 3. Armenian | .473 | 473 | | | | | | | | | | | | |
| 4. *Phryg/Dac. | .393 | 359 | 297 | | | | | | | | | | | |
| 5. Hellenic | .643 | 570 | 534 | 447 | | | | | | | | | | |
| 6. Illyrian | .375 | 348 | 290 | 273 | 424 | | | | | | | | | |
| 7. Albanian | .468 | 429 | 358 | 216 | 517 | 211 | | | | | | | | |
| 8. Italic | .588 | 521 | 482 | 328 | 625 | 372 | 474 | | | | | | | |
| 9. Celtic | .544 | 514 | 449 | 369 | 570 | 413 | 433 | 581 | | | | | | |
| 10. Germanic | .600 | 545 | 495 | 418 | 621 | 430 | 493 | 646 | 637 | | | | | |
| 11. Baltic | .562 | 500 | 450 | 371 | 593 | 372 | 445 | 551 | 553 | 578 | | | | |
| 12. Slavonic | .532 | 479 | 393 | 335 | 553 | 363 | 447 | 553 | 547 | 646 | 706 | | | |
| 13. Tocharian. | .479 | 444 | 334 | 186 | 487 | 218 | 315 | 452 | 422 | 489 | 431 | 405 | | |
| 14. Hittite | .443 | 384 | 343 | 103 | 472 | 196 | 233 | 450 | 388 | 431 | 339 | 372 | 319 | |